



COURSE **INFORMATION** AND REQUIRED MATERIALS MANUAL







COMMAND COURSES		1
Fire Command 1A: Command Principles for Company Officers (1995)		
Fire Command 18: Incident Management for Company Officers (1998)		
Fire Command 1C: I-Zone Fire Fighting for Company Officers (2004)		
Fire Command 2A: Command Tactics at Major Fires (1989)		
Fire Command 2B: Management of Major Hazardous Materials Incidents (2009)	CFSTES	7
Fire Command 2C: High-rise Fire Fighting Tactics (1995)	CFSTES	9
Fire Command 2D: Planning for Large Scale Disasters (1996)		
Fire Command 2E: Wildland Fire Fighting Tactics (1996)		
DRIVER/OPERATOR COURSES		
Basic Emergency Vehicle Operations (1996)		
Basic Pump Operations (1993)		
Fire Apparatus Driver/Operator 1A: Emergency Vehicle Operations (2008)	CFSTES	15
Fire Apparatus Driver/Operator 1B: Pump Operations (2008)		
FIRE FIGHTING/RESCUE COURSES		19
Auto Extrication (1996)	FSTEP	19
Command and Control of the RIC Deployment (2011)	FSTEP	20
Confined Space Rescue Awareness (1995)	FSTEP	21
Emergency Response to Alternative Fuel Vehicles (2010)	FSTEP	22
Fire Control 1: Basic Fire Chemistry (1996)		
Fire Control 2: Basic Operations – Structural (1996)		
Fire Control 3A: Structural Fire Fighting in Acquired Structures (2009)	FSTEP	25
Fire Control 3B: Structural Fire Fighting in Live-fire Simulators (2009)		
Fire Control 4: Oil and Gas Fire Fighting (1997)		
Fire Control 4A: Flammable Gases Fire Fighting (1996)		
Fire Control 4B: Flammable Liquids Fire Fighting (1996)		
Fire Control 4A and 4B: Flammable Gases and Liquids Fire Fighting (1996)		
Fire Control 5: Aircraft Rescue and Fire Fighting (1988)		
Fire Control 6: Wildland Fire Fighting Essentials (1992)		
Fire Control 7: Wildland Fire Fighting		
Fire Fighter I (2001)		
Fire Fighter II (2001)		
Fire Fighter Survival (2010)		
Fireline Safety Awareness for Hired Vendors (2011)		
Large Animal Rescue Operational (2003)		
Low Angle Rope Rescue Operational (2007)		
Personal Watercraft Rescue Operations (1996)		
Rapid Intervention Crew Tactics (2000)		
Rescue Boat Operations (1998)		
River and Flood Water Rescue (1996)		
Tire Fire Prevention and Suppression (2004)		
Trench Rescue		
HAZ MAT COURSES		
Hazardous Materials First Responder Awareness Level (1996)		
Hazardous Materials First Responder Operational Level (1994)		
Hazardous Materials First Responder Operational, Decontamination (1993)		
ICS COURSES		
I-200: Basic ICS (2006)		
I-300: Intermediate ICS (2007)		
I-400: Advanced ICS (2006)		
S-130: Fire Fighter Training (2003)		
S-131: Fire Fighter Type 1 Training (2004) S-190: Introduction to Wildland Fire Behavior (2006)		
S-200: Initial Attack Incident Commander (2007) S-203: Introduction to Incident Information (2008)		
S-203: Introduction to incident information (2008) S-212: Wildland Fire Chainsaws (2004)		
$5 \ge 12$. Whiteheld the Chambaws (2004)	·····	



S-215: Fire Operations in the Wildland/Urban Interface (2003)	FSTEP	52
S-230: Crew Boss – Single Resource (2004)	FSTEP	52
S-231: Engine Boss (2004)		
S-234 Ignition Operations (2009)		
S-244: Field Observer (2007)		
S-245: Display Processor (2007)	FSTEP	53
S-270: Basic Air Operations (2003)		
S-290: Intermediate Wildland Fire Behavior (2007)		
S-300: Extended Attack Incident Commander (2008)		
S-330: Task Force/Strike Team Leader (2005)		
S-336: Tactical Decision Making in Wildland Fire (2004)		
S-339: Division/Group Supervisor (2006)		
S-346: Situation Unit Leader (2008)		
S-349: Resources Unit Leader/Demobilization Unit Leader (2008)		
S-355: Ground Support Unit Leader (2000)		
S-356: Supply Unit Leader (2001)		
S-358: Communications Unit Leader (2008)		
S-359: Medical Unit Leader (2000)		
S-360: Finance/Administration Unit Leader (2001)		
S-390: Introduction to Wildland Fire Behavior Calculations (2006)		
S-400: Incident Commander (2002)		
S-403: Information Officer (2001)		
S-404: Safety Officer (2002)		
S-420: Command and General Staff (2002)		
S-430: Operations Section Chief (2006)		
S-440: Planning Section Chief (2001)		
S-445: Incident Training Specialist (2009)		
S-450: Logistics Section Chief (2002) S-460: Finance/Administration Section Chief (2001)		
S-490: Advanced Wildland Fire Behavior Calculations (2008)		
S-490: Advanced Whithand Fire Benavior Calculations (2000) S-491: Intermediate National Fire Danger Rating System (2003)		
ICS-ALL RISK COURSES		
S-330: Task Force/Strike Team Leader All Risk (2002)		
S-339: Division/Group Supervisor All Risk (2002)		
S-430: Operations Section Chief All Risk (2000)		
INSTRUCTOR COURSES		
Ethical Leadership in the Classroom (2007)		
Fire Instructor 2A: Techniques of Evaluation (1991)		
Fire Instructor 2B: Group Dynamics and Problem Solving (1990)	CESTES	68
Fire Instructor 2C: Employing Audiovisual Aids (1989)		
Fire Instructor 3: Master Instructor Competency Evaluation (2010)		
Instructional Techniques for Company Officers		
Regional Instructor Orientation		
Training Instructor 1A: Cognitive Lesson Delivery (2010)		
Training Instructor 1B: Psychomotor Lesson Delivery (2010)		
Training Instructor 1C: Instructional Development Techniques (2010)		
INVESTIGATION COURSES		
Explosives Recognition and Reconnaissance		
Fire/Arson Detection		
Fire Investigation 1A: Fire Origin and Cause Determination (1996)		
Fire Investigation 1B: Techniques of Fire Investigation (2000)		
Fire Investigation 2A: Criminal and Legal Procedures (2003)		
Fire Investigation 2B: Field Case Studies		
MANAGEMENT COURSES		
Fire Management 1: Management/Supervision for Company Officers (2000)		
Fire Management 2A: Organizational Development and Human Relations (2009)		



Fire Management 2B: Fire Service Financial Management (2009)		
Fire Management 2C: Personnel and Labor Relations (2009)		
Fire Management 2D: Strategic Planning (2009)		
Fire Management 2E: Ethics and the Challenge of Leadership (2009)		
Fire Service Supervision: Increasing Personal Effectiveness	FSTEP	96
Fire Service Supervision: Increasing Team Effectiveness	FSTEP	97
Volunteer Fire Service Management	FSTEP	
MECHANIC COURSES		99
Fire Mechanic 1: Fire Pumps and Accessories (2004)	CFSTES	
Fire Mechanic 2A: Fire Apparatus Electrical Systems (2004)	CFSTES	100
Fire Mechanic 2B: Allison Transmissions (2004)		
Fire Mechanic 3A: Ambulance Service and Maintenance (2004)		
Fire Mechanic 3B: Aerial Apparatus (2004)		
PREVENTION COURSES		
Fire Prevention 1A: Introduction to the California Fire Code Bridge (2009)		
Fire Prevention 1B: Inspection of Fire Protection Systems/Special Hazards Bridge (2009)		
Fire Prevention 1C: Flammable Liquids and Gases (1987)		
Fire Prevention 2A: Fire Protection Systems and Building Components (1993)		
Fire Prevention 2B: Interpreting the UBC and CCR (1992)	CFSTES	111
Fire Prevention 2C: Special Hazard Occupancies (1994)		
Fire Prevention 3A: Hydraulic Sprinkler Calculations (1995)		
Fire Prevention 3B: Plan Review (1994)		
Fireworks Enforcement/Special Effects		
Motion Picture/Television Fire Safety Officer		
PUBLIC EDUCATION COURSES		
Public Education 1: Systematic Planning and Communication Skills (1989)		
TECHNICAL RESCUE COURSES		
Confined Space Rescue Technician (2008)		
Confined Space Rescue Technician Accredited Training Site Requirements		
Rescue Systems 1: Basic Rescue Skills (2009)		
Rescue Systems 1 Accredited Training Site Requirements		
Rescue Systems 2: Advanced Rescue Skills (2009)		
Rescue Systems 2 Accredited Training Site Requirements		



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

		COMN	MAND COURSES
Course: Hours:		cers (1995)	CFSTES
Designed For:	First-in incident commander and company officers		
Description:	ion: This course provides instruction and simulation time pertaining to the initial decision and action processes at a working fire. Topics include the fire officer, fire behavior, fireground resources, operations, and management.		
Prerequisites:	i -200		
Certification :	Fire Officer		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 		1995	SFT
	REQUIRED INSTRUCTOR MATERIALS		
 Certification Example 	am	1995	SFT
Instructor Guide	j	1995	SFT
 Student Manual 	 Student Manual 1995 SFT 		SFT
	VENDORS		
SFT Sta	ate Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov

FIRE COMMAND 1A COURSE OUTLINE

- An introduction to human resource management. .
- An overview of the organizational structure used within the fire service, including duties and responsibilities.
- Communication skills appropriate for reporting on conditions and managing resources at an emergency incident. .
- Information on how to compile a prefire plan, and how to utilize that information when responding to an emergency incident.
- The opportunity to size-up emergencies; and identify the strategies, tactics, and methods necessary to manage given scenarios. An overview of the common causes of fire fighter deaths and injuries, and appropriate safety measures to protect

personnel.	
Course Content:	
Orientation and Administration	
The Learning Process	0:15
Fire Command Overview	
Fire Chemistry	
Fire Phases	0:45
Effects of Time	
Fire Behavior within Structures	
Extinguishing Agents	
Water Application	0:45
Protection Systems	
Building Construction	
Occupancy Types	
Prefire Planning	
Fire Data	0:15
Local Resources	
State and Federal Resources	
Fireground Safety	
Size-up	
Strategy, Tactics, and Methods	
Report on Conditions	
Role of the First-In Officer	
Company Operations	0:15
Determining Resources Requirements	0:30



PO Box 944246, Sacramento CA 94244-2460

FIRE COMMAND 1A COURSE OUTLINE

Apparatus Placement	0:30
Initial Fire Attack	0:30
Management Overview	0:30
The Fire Service	0:30
The Company Officer	0:30
Pressure of Command	0:45
Performance Standards	1:15
Levels of Emergency Decision Making	0:15
Decision Making	
Communications	0:30
Management by Objectives (MBO)	0:30
Divisions of Fire Fighting	0:45
Command/Control Components	0:45
Simulation Overview	
Skull Session Exercises	
Simulator Use	
Daily Reviews	
Course Review and Certification Exam	



Course:	Fire Command 1B: Incident Management for Company	Officers (1998)	CFSTE
Hours:	40		
Designed For:	First-in incident commander and company officers		
Description:	This course provides the student with information on tac multi-casualty incidents, hazardous materials incidents, the opportunity to increase his or her knowledge and sk types of incidents through simulation and class activities	and wildland fires. Each st ills by handling initial oper	udent also has
Prerequisites:	I-200, Fire Command 1A		
Certification:	Fire Officer		
Class Size:	40		
Restrictions:	None	EDITION	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Student Manual		1998	SFT
	REQUIRED INSTRUCTOR MATERIALS		
Certification Exa	n	1998	SFT
Instructor Guide		1998	SFT
	s on CD-ROM (Optional)	1998	SFT
Student Manual		1998	SFT
	VENDORS		
T Stat	e Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.go
	FIRE COMMAND 1B COURSE OUTL	INE	
ourse Objectives: 7	o provide the student with		
	nich to direct the initial operations of a multi-casualty inci		
	nich to direct the initial operations of a hazardous materia		
	nich to direct the initial operations of a wildland fire incid		
The opportunity	to demonstrate the knowledge and skills learned in handl	ing initial operations at haz	zardous

 The opportunity to demonstrate the knowledge and skills learned in handling initial operations at hazardor materials, wildland fire, and multi-casualty incidents through simulation and class activities. 	us
Course Content:	40.00
Unit 1: Course Overview and ICS Review	
Orientation and Administration	
Course Overview	
Fire Command 1A Review	
Concepts of ICS Organization	
Unit 2: Multi-Casualty Incidents	
Components of Triage and START	2:00
ICS and EMS Multi-Casualty	
ICS-MCI Implementation Overview	
Unit 3: Hazardous Materials Incidents	
Hazardous Materials Overview	0:30
Properties of Hazardous Materials	1:00
Toxicology	
Site Control/Work Zones	0:30
Evacuation Considerations	
Decision-Making Process	0:30
ICS and the Hazardous Materials Incident	1:30
Unit 4: Wildland Fire Incidents	
Factors Affecting Wildland Fires	
Defensive and Offensive Strategies in Wildland Fire Fighting	
Use of Direct and Indirect Attack Methods on Wildland Fires	
Structure Protection and Triage in Wildland Fires	
Wildland Fire Safety	
Simulation Exercises	
Course Review and Certification Exam	



PO Box 944246, Sacramento CA 94244-2460

Соц	Course: Fire Command 1C: I-Zone Fire Fighting for Company Officers (2004) CFSTES			
Ho				
Designed F				
Descripti		This course is designed around the responsibilities of the Company Officer at a wildland/urban		
•	interface incident. It will bring the structural Company Officer ou			
	urban/interface; in other words, from his or her comfort zone into	an area that cou	ld very well be	
	quite unfamiliar.			
Prerequisi	tes: I-200, Fire Command 1A			
Certificati				
Class Si				
Restrictio	ons: None			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Fireline Han 	dbook (NFES 0065)	2004	NWCG	
 ICS 420-1 Fi 	eld Operations Guide (Pocket)	2004	FIRESCOPE	
 Incident Res 	ponse Pocket Guide (NFES 1077)	2006	NWCG	
 Introduction 	to Wildland Fire Behavior S-190 Student Workbook (NFES 2901)	2006	NWCG	
 Student Supplement 	Student Supplement 2004 SFT			
	REQUIRED INSTRUCTOR MATERIALS			
 Certification 	Exam	2004	SFT	
 Fireline Han 	dbook (NFES 0065)	2004	NWCG	
 ICS 420-1 Fi 	eld Operations Guide	2004	FIRESCOPE	
 Incident Res 	ponse Pocket Guide (NFES 1077)	2006	NWCG	
 Instructor G 	uide	2004	SFT	
Introduction	to Wildland Fire Behavior S-190 Instructor Guide (NFES 2900)	2006	NWCG	
Introduction	to Wildland Fire Behavior S-190 Student Workbook (NFES 2901)	2006	NWCG	
 PowerPoint 	Slides on CD-ROM (Optional)	2004	SFT	
 Student Supplement 	plement	2004	SFT	
 Videos 				
	Safety in the Wildland/Urban Interface" Video Series	2003	WUI	
	-602-03-VST for Video or DVD/FWC-602-03-DV for disk)	2003		
Introduction	n to Wildland Fire Behavior" Video (NFES 1861)		NWCG	
VENDORS				
FIRESCOPE	Firefighting Resources of California Organized for Potential Emergenci	es wv	ww.firescope.org	
NWCG	National Wildlife Coordinating Group (208-387-5119)		www.nwcg.gov	
SFT	SFT State Fire Training Bookstore (916-445-8158) http://sft.fire.ca.gov			
WUI	National Wildland/Urban Interface Fire Program	v	ww.firewise.org	

FIRE COMMAND 1C COURSE OUTLINE

- Information on the three elements of wildland fire behavior including fuel, weather, and topography.
- The elements of the ICS as it relates to I-Zone fire fighting, including an Incident Action Plan.
- Information on the duties and responsibilities of the strike team Company Officer.
- Information on the communications process as it relates to I-Zone fire fighting.
- The fundamental elements of size-up as they relate to I-Zone fire fighting and components of a report on conditions.
- Information on I-Zone fire fighting resources and their capabilities.
- An understanding of fire fighter safety and survival in I-Zone fire fighting.
- A basic knowledge of evacuation as it relates to I-Zone fire fighting.
- Procedures for structure triage and protection.
- The opportunity to perform under simulated conditions in the classroom.

Course Content	
Unit 1: Introduction	
Orientation and Administration	
Authority	0:30
Unit 2: Fire Environment	



PO Box 944246, Sacramento CA 94244-2460

FIRE COMMAND 1C COURSE OUTLINE

Fire Behavior and Weather	
Fire Prediction Systems	1:00
Unit 3: ICS	
Review of the Incident Command System	
Duties and Responsibilities of the Company Officer	
Incident Action Plan	
Unit 4: I-Zone Operation Principles	
Resources	
Communications	
Strategy and Tactics	1:00
I-Zone Size-up	1:00
Report on Conditions	
Unit 5: Safety and Survival	
Introduction to Safety and Survival in the I-Zone	0:45
The Risk Management Process	
Entrapment Avoidance	
Last Resort Survival	
Properly Refusing Risk	0:30
Fire Fighter Fatality and Near-miss Case Studies	
Unit 6: I-Zone Incident Operations	
Pre-incident Operations	
Incident Operations	
Post-incident Operations	
Unit Tests	
Course Review and Certification Exam	



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Command 2A: Command Tactics at Major Fires (1989) CFS		CFSTES	
Hours:	40			
Designed For:	Chief officers, company officers, and training officers			
Description:	This course prepares the officer to use management techniques a	nd the Incident C	Command	
-	System when commanding multiple alarms or large suppression	forces.		
Prerequisites:	I-300, Fire Command 1A			
Certification :	Chief Officer			
Class Size:	40			
Restrictions:	This course requires a site with adequate materials and equipment	nt to deliver the t	raining	
	according to the course outline.			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Supplem 	ent	1985	SFT	
ICS 420-1 Field Operations Guide 2004 FIRESCOPE		FIRESCOPE		
	REQUIRED INSTRUCTOR MATERIALS			
Certification Exam	n	1989	SFT	
 ICS 420-1 Field 	Operations Guide	2004	FIRESCOPE	
 Instructor Guide 		1985	SFT	
Student Supplement		1985	SFT	
 Fire Fighter Safety and Survival Video 		1996	NTIS	
 Overview of a N 	Aajor Emergency Video, Los Angeles Library Fire (optional)			
 Detroit Fatalities 	s Flashover Video (optional)			
End of the Line '	Video, Phoenix Fire Incident (optional)			

VENDORS			
FIRESCOPE	Firefighting Resources of California Organized for Potential Emergencies	www.firescope.org	
NTIS	National Technical Information Service (800-553-6847)	www.ntis.gov	
SFT	State Fire Training Bookstore (916-445-8158)	http://sft.fire.ca.gov	

FIRE COMMAND 2A COURSE OUTLINE

- A review of the essential topics and activities from Fire Command 1A, including ICS, fire behavior within structures, pre-fire plan, and the role of the first-in officer.
- Information to assume or transfer command at major structure fires.
- A summary of considerations specific to major structure fire incidents.
- A summary of major fire incident operations and management procedures.
- Information and practices that enhance fire fighter safety and survival at major structure fires.
- The opportunity to apply expanded incident command principles under simulated conditions.

Course Content:	40:00
Course Introduction and Overview	1:00
Fire Command 1A Review	4:00
Assuming and Transferring Command	
Major Fire Considerations	8:00
Safety	
Simulation Exercises	
Certification Review and Certification Exam	2:00



PO Box 944246, Sacramento CA 94244-2460

Cou	rse: Fire Command 2B: Management of Major Hazardous Mat	erials Incidents (2009)	CFSTES	
	ourse: 40			
Designed F	For: Chief officers, company officers, and training officers			
Descripti	This course provides Incident Commanders with the skills and competency necessary to mitigate an incident, initiate remedial action, and ensure the restoration of normal services with a comprehensive resource management approach. The course is also intended to bring the student to the standard of competency established for On-Scene Commander by OSHA's Final Rule 29 CFR 1910.120 and NFPA 472. Students will participate in simulated incident scenarios and justify their actions in a mock civil court setting.			
Prerequisi	6			
Certificati				
Class Si	40			
Restrictions: None				
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
Hazardous Materials On Scene Commander 2009 ETS			ETS	
	REQUIRED INSTRUCTOR MATERIALS			
 Certification 	Certification Exam 2009 SFT			
 Hazardous N 	Hazardous Materials On Scene Commander 2009 ETS			
 Instructor Gu 	Instructor Guide 2009 ETS			
	VENDORS			
ETS	Emergency Training Services (800-700-8444)	www.e	tsclassroom.com	
SFT	State Fire Training Bookstore (916-445-8158) http://sft.fire.ca.g		p://sft.fire.ca.gov	

FIRE COMMAND 2B COURSE OUTLINE

- An understanding of what haz mats are; the problems they pose; the risks and outcomes of events; their clues, warning signs, placards, labels, shipping papers, and data sheets; the need for a positive safety approach including a mental safe approach tactic upon recognition of the haz mat event.
- The basic principles of first responder and operational actions; recognizing the need for use of ICS safety and isolation, and making the required notifications and contacts in mitigating a haz mat incident; and identifying the role of the Incident Commander/Scene Manager.
- Information to enhance their ability to communicate and coordinate with any agency having authorized activities dealing with a haz mat incident, and recognizing those agencies' roles and capabilities.
- Information to enhance their ability to conduct local pre-event haz mat plan and techniques to implement the management system used in that plan; and to identify methods of interaction with the state and federal regional response teams.

Course Content:	
Course Introduction and Overview	1:00
Introduction to Hazardous Materials and the IC/Scene Manager	
Haz Mat Recognition and Safety	1:00
Safety, Isolation, and Notification	1:00
Agency Coordination at the IC/SM Level	1:00
Pre-event and Event Specific Planning	
Managing the Media at a Haz Mat Incident	
Command and Scene Management	
IDHA and Action Plans	
Protective Equipment	
Containment and Control Methods	
Protective Actions Options	1:00
Decontamination and Clean-Up Considerations	
Disposal and Funding Issues	
Documentation and Reporting	
Toxicology	1:00
Safety and Isolation via Perimeters and Zones	
Investigations	



PO Box 944246, Sacramento CA 94244-2460

FIRE COMMAND 2B COURSE OUTLINE

Managing a Haz Mat Event and Medical Response	1:00
Managing Actual Haz Mat Events	
Exercises, Critiques and IC/SM Exercise Briefing	
The EOC and Haz Mat - an Overview	
Review and Team Tabletop Exercises	
Legal Aspects and Liabilities	
Course Review and Certification Exam	



	Course: Fire Command 2C: High-rise Fire Fighting Tactics (1995) CFS				
Но					
Designed		Chief officers and experienced company officers			
Descript	Description: This course is approached from a system basis and is applied to both small and large high-rise				
buildings. Topics include prefire planning, building inventory, problem identification, ventilation					
	methods, water supply, elevators, life safety, strategy and tactics,	, application of the	e ICS, and		
	specific responsibilities. Case studies and simulation are used.				
Prerequisi					
Certificat					
Class S					
Restrictio		ent to deliver the t	raining		
	according to the course outline. REQUIRED STUDENT MATERIALS	EDITION	VENDORS		
ICS-HR-102	1 High-rise Structure Fire Operational System Description	1999	FIRESCOPE		
	1 Base Manager – High-rise Incident	1999	FIRESCOPE		
	2 Ground Support Unit Leader – High-rise Incident	1999	FIRESCOPE		
	3 Lobby Control Unit Leader – High-rise Incident	1999	FIRESCOPE		
	,		FIRESCOPE		
	4 Systems Control Unit Leader – High-rise Incident 5 Staging Area Manager – High-rise Incident	1999 1999	FIRESCOPE		
	6 Medical Unit Leader – High-rise Incident	1999	FIRESCOPE		
	7 Safety Officer – High-rise Incident	1999	FIRESCOPE		
Student Mar		1995	SFT		
	REQUIRED INSTRUCTOR MATERIALS				
Certification		1995	SFT		
	1 High-rise Structure Fire Operational System Description	1999	FIRESCOPE		
	1 Base Manager – High-rise Incident	1999	FIRESCOPE		
	2 Ground Support Unit Leader – High-rise Incident	1999	FIRESCOPE		
	3 Lobby Control Unit Leader – High-rise Incident	1999	FIRESCOPE		
	4 Systems Control Unit Leader – High-rise Incident	1999	FIRESCOPE		
	5 Staging Area Manager – High-rise Incident	1999	FIRESCOPE		
	6 Medical Unit Leader – High-rise Incident	1999	FIRESCOPE		
	7 Safety Officer – High-rise Incident	1999	FIRESCOPE		
Student Mar		1995	SFT		
Incendio/Hi			FETN		
Out of Chac	s Video				
	VENDORS				
FETN	Fire and Emergency Training Network (800-845-2443)		www.fetn.com		
FIRESCOPE	Firefighting Resources of California Organized for Potential Emergence	cies w	ww.firescope.or		
SFT	State Fire Training Bookstore (916-445-8158)	ht	tp://sft.fire.ca.go		
	FIRE COMMAND 2C COURSE OUTLINE				
Course Content:					
Do You Hav	e High Rise In Your Community/Jurisdiction?				
Construction	n Features Specific To High-rise Buildings				
Water Systems Unique To High-rise Buildings					
Occupant Li	fe Safety				
Prefire Planning and Training For High-rise Fire Fighting					
Building Inventory and Prefire Survey Systems					
Communications Systems					
Specific Areas of Assignment As They Relate To High-rise ICS					
Strategy, Tactics, and Priority Placement of Resources					
Ventilation As It Relates To High-rise buildings					
High-rise Elevator Systems					
Fire Fighter Safety					
Simulation Exercises With Post Fire Analysis and Case Studies					



PO Box 944246, Sacramento CA 94244-2460

Cour	rse: Fire Command 2D: Planning for Large Scale Disasters (1	Fire Command 2D: Planning for Large Scale Disasters (1996) CFSTES			
Ηοι					
Designed F	or: Chief officers, company officers, and planners				
Description	Key topics include: Principles of disaster planning and management, fire service emergency plans, emergency operations centers, case studies of various natural and man made disasters, roles of local, state and federal OES and emergency management agencies, discussion of multi-hazard planning techniques, ICS and SEMS concepts, and principles of exercising emergency management staffs.				
Prerequisit	tes: I-300, Fire Command 2A				
Certificati					
Class Si	ze: 40	40			
Restrictio	None				
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS		
 Student Man 	ual	1996	SFT		
	REQUIRED INSTRUCTOR MATERIALS				
 Certification 					
 Instructor Gu 	Instructor Guide 1996 SFT				
 Student Man 	Student Manual 1996 SFT				
	VENDORS				
SFT	State Fire Training Bookstore (916-445-8158) http://sft.fire.ca.go				

FIRE COMMAND 2D COURSE OUTLINE

- A brief history of emergency management programs at the local, state, and federal level, their current function, and available funding sources.
- The management tools, techniques, and resources currently available to develop an on-going emergency . management program that would involve a range of local government departments, community agencies, and private entities.
- The basic principles and components of emergency management plan development, available guidance, and related terminology to include the usage of tine Incident Command System (ICS) and Standardized Emergency Management System (SEMS) concept.
- The basic principles, technical aspects, equipment components, and common features of facilities/areas that may be used as an Emergency Operations Center (EOC), and a description of mutual. Aid agreement and their application in disaster situations.
- Basic techniques for day-to-day management and how to make the emergency management program a valuable asset to their jurisdiction; to include interface with community groups, private businesses, support groups, and other organizations through training and an exercise development program.
- The current legislative and liability issues, as well as community pressures that are currently influencing emergency management programs to include current information received from recent disaster situations and their impact upon emergency management programs.
- An opportunity to demonstrate their acquired knowledge through programmed exercises and simulations.

Course Content:	
Orientation and Administrative Details	
Introductions and Purpose of the Course	
Description of Emergency Situations	
Project Assignment Description	0:30
Incident Command System	0:30
Functions of an Emergency Operations Center	
Design of an Emergency Operating Center	1:30
History and Purpose of Federal Emergency Management Program	
Structure of Emergency Management Organizations	
Jurisdictional Responsibility for Emergency Management	
Fire Department Role in Emergency Management	
Role of Emergency Management Coordinator	
The Planning Process	1:30



PO Box 944246, Sacramento CA 94244-2460

FIRE COMMAND 2D COURSE OUTLINE

A Useable Plan	1:00
Disaster Service Worker	0:30
Comprehensive Emergency Management - Mitigation	1:30
Comprehensive Emergency Management - Preparedness	1:00
Comprehensive Emergency Management - Response	
Comprehensive Emergency Management - Recovery	
Mutual Aid	1:30
Procedures for Declaring a Local Disaster	1:00
Resources and Other Types of Assistance	
Types of Exercises	1:30
Exercise Development Program	1:00
Tabletop Exercise Development	1:30
Functional and Full-Scale Exercises	1:00
Project Presentations	
Review of Recent Emergency Situations	
Course Review and Certification Exam	



SFT

COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course: Hours:	Fire Command 2E: Wildland Fire Fighting Tactics (1996) CFSTES 40			
Designed For:	Fire officers who have command responsibilities at wildland fires			
Description:	This course contains such topics as California's wildland fire problem, wildland fire safety, weather effects, wildland fuels, wildland fire behavior, initial attack methods, using support equipment, using topographic maps, strategy and tactics, and air attack operations. Involves class participation and simulation.			
Prerequisites:	I-300, Fire Command 1C, Fire Command 2A			
Certification:	Chief Officer			
Class Size:	40			
Restrictions:	: None			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Supplement 		1994	SFT	
 I-100 Introduction to the Incident Command System 		2006	NWCG	
		2004	FIRESCOPE	
	REQUIRED INSTRUCTOR MATERIALS			
Certification Exam		1996	SFT	
 I-100 Introduction to the Incident Command System 		2006	NWCG	
		FIRESCOPE		
 Instructor Guide 				
 Introduction to V with Unit/Final T 	NWCG			

with Unit/Final Tests (Appendix B)			
 Preassignr 	nent	1994	SFT
 Student Su 	pplement	1994	SFT
Wildland Calculator			
VENDORS			
FIRESCOPE Firefighting Resources of California Organized for Potential Emergencies www.firescope.org			ww.firescope.org
NWCG	National Wildlife Coordinating Group (208-387-5119)		www.nwcg.gov

State Fire Training Bookstore (916-445-8158) http://sft.fire.ca.gov

FIRE COMMAND 2E COURSE OUTLINE

Course Objectives: To provide the student with...

- Information about the command responsibilities pertinent to emergency operations involving wildland fires.
- . Information on the principles and methods for planned suppression of wildland fires.
- Information on the tactics and strategies common to wildland fires.
- . Information on the resources specifically designed for wildland fire control.
- . Information on the specific applications of the Incident Command System used in wildland fires and emergencies.
- The tools and techniques relative to reading maps and assessing topography that can be utilized in their own agency to improve pre-emergency planning and resource deployment.
- The opportunity to gain experience in a controlled environment through simulations.

•	Information to	o mar	age an	incident in a wildland fire.
			-	

Course Content:	
Historical Development of the Wildland Fire Problem	
Command Responsibilities	
Pre-emergency Planning	
Tactics and Strategy for Wildland Operations	
Specialized Wildland Fire Fighting Resource Capability	
Wildland Fire Behavior	
Map Reading and Usage	
Wildland Incident Command Systems	
Fire Fighter Safety and Survival	
Simulations	
Course Review and Certification Exam	

10.00



PO Box 944246, Sacramento CA 94244-2460

DRIVER/OPERATOR COURSES

Course:	Basic Emergency Vehicle Operations (1996)		FSTEP
Hours	16		
Designed For:	All fire service personnel		
Description:	This course provides information and skills training. Topics include applicable laws, defensive driving techniques, basic inspection, and maintenance. Each student also has the opportunity to increase his or her driving skills during simulated driving conditions.		
Prerequisites:			
Certification :	None		
Class Size:	Size: 25		
Restrictions:	Restrictions: This course requires a site with adequate materials and equipment to deliver the training according to the course outline.		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
lone			

REQUIRED STUDENT MATERIALS	EDITION	VENDUKS
None		
REQUIRED INSTRUCTOR MATERIALS		
None		
BASIC EMERGENCY VEHICLE OPERATIONS COURSE (DUTLINE	
Course Objectives: To provide the student with		
Information on driver responsibilities, vehicle laws, and defensive driving technic	ques.	
Information and techniques on basic inspections and maintenance of emergency		
Information and techniques for operating an emergency vehicle prior to the run,	during the run, whi	le at the
emergency and when returning to the unit's quarters.		
An opportunity to increase his or her driving skills using simulated driving condit	ions.	
Course Content:		
Introduction to Emergency Vehicle Operation		0:3
State and Local Laws Relating to Emergency Vehicle Operations		0:2
Department Driving Rules and Regulations		
Principles of Driving Techniques		
Principles of Safe Driving of Emergency Vehicles During "Code 3" Response		
Driving Safety Considerations for Off Road Operations		
Driver Safety While Working on Freeway Emergencies		
Placement of Emergency Vehicles at an Emergency Scene		
Mobile Pumping Safety Considerations		
How to Perform Routine Emergency Inspection		
How to Read and Interpret Vehicle Gauges		
How to Perform Routine Emergency Vehicle Maintenance		
How to Complete Routine Maintenance Records and Reports		
Development of an Equipment Inventory Checks		
How to Make Daily Equipment Inventory Checks		
Development of a Route Map Book		
How to Drive Apparatus		
How to Maneuver Apparatus Through Serpentine Exercise		
How to Maneuver Apparatus Through Offset Alley Exercise How to Maneuver Apparatus Through Straight Line Exercise		
How to Maneuver Apparatus Through Straight Line Exercise How to Maneuver Apparatus Through Turn Around Exercise		
How to Maneuver Apparatus Through Turn Around Exercise How to Maneuver Apparatus Through Diminishing Clearance Exercise		
How to Maneuver Apparatus Through Diminishing Clearance Exercise		
How to Maneuver Apparatus while Mobile Fullping How to Maneuver Apparatus on Up and Down Hill Exercise		



PO Box 944246, Sacramento CA 94244-2460

Cour			FSTEP	
Ηοι				
Designed F	or: All fire service personnel			
Description	This course provides the student with the information and skills training for operating fire service pumps. Topics include types of pumps, engine and pump gauges, maintenance, unsafe pumping conditions, pressure relief devices, cooling systems, water supplies, drafting, and field hydraulics. Each student also has the opportunity to increase his or her pumping skills during simulated pumping conditions.			
Prerequisit	sites: None			
Certificati				
Class Si	lass Size: 25			
Restrictio	Restrictions: This course requires a site with adequate materials and equipment to deliver the training according to the course outline.			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
None				
	REQUIRED INSTRUCTOR MATERIALS			
Instructor Guide 1993 SFT				
	VENDORS			
SFT	State Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.gov	

BASIC PUMP OPERATIONS COURSE OUTLINE

- Information and theory on pump operation.
- Methods of performing basic field hydraulics
- Methods and techniques for routine maintenance on pumping apparatus.
- Methods and procedures for pump operations from the tank, a hydrant and at draft.

- Methods and procedures for pump operations from the tank, a hydrant and at dra	
Course Content:	
Introduction to Pump Operations	0:30
Types of Pumps	0:30
Types of Priming Devices	0:15
Single and Multi-Stage Centrifugal Pumps	
Engine and Pump Gages	0:15
Maintenance Records and Reports	0:15
Rated Performance of Fire Service Pumps	0:15
Unsafe Pumping Conditions	
Pressure Relief Valves	0:15
Auxiliary Cooling Systems	0:15
Check Valves	0:10
Water Supplies for Pump Operations	
Tank Supply Operations	0:15
Water Tender Relay Operations	0:15
Fire Hydrant Operations	
Tandem Pumping Operations	
Forward Hose Lay Supply Operations	
Drafting Theory	
Static Water Supply Operations	0:30
Ejector Pump Operations	
Relay Pumping Operations	
Field Hydraulics	
How to Provide Power to the Pump	
How to Use Tank Water	
How to Use a Hydrant	
How to Relay Pump	
How to Draft Water	
How to Use an Ejector Pump	



PO Box 944246, Sacramento CA 94244-2460

Cour		ıs (2008)	CFSTES	
Ηοι				
Designed F				
Description				
	Standard for Fire Apparatus Driver/Operator Professional Qualification			
	student with information on driver responsibilities, recognized sta	,		
		apparatus. Topics include basic inspections, documentation, maintenance, and troubleshooting		
	fire apparatus, and techniques on driving and positioning fire app			
Duonomicid	opportunity to increase his or her driving skills during simulated dress. Fire apparatus driving experience on a public way. Option 1: Sign			
Prerequisit	Chief (form is on the SFT website); Option 2: California Class B dr			
	restricted; or Option 3: California Class A, B, or C driver's license			
	Fire Fighter I training recommended	, me nghter end	01500	
Certificati				
Class Si				
Restrictio	ns: This course requires a site with adequate materials and equipmen	-		
according to the course outline.				
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
	nercial Driver Handbook	Current	DMV	
	atus Driver/Operator Handbook	Second	CFCA or FPP	
Student Supplen	Student Supplement 2011 SFT			
	REQUIRED INSTRUCTOR MATERIALS			
California Comn	nercial Driver Handbook	Current	DMV	
Certification Exa	m	2011	SFT	
Instructor Guide		2011	SFT	
PowerPoint Slide	es on CD-ROM (Optional)	2008	SFT	
			CFCA or FPP	
Student Supplement 2011 SFT				
	VENDORS			
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	W	ww.calchiefs.org	
FPP	Fire Protection Publications (800-654-4055)		www.ifsta.org	
SFT	State Fire Training Bookstore (916-445-8158)	<u> </u>	tp://sft.fire.ca.gov	

FIRE APPARATUS DRIVER/OPERATOR 1A COURSE OUTLINE

- Information on driver responsibilities, recognized standards, and related laws for fire apparatus.
- Information and techniques on basic inspections, documentation, maintenance, and troubleshooting fire apparatus.
- Information and techniques on driving and positioning fire apparatus.

•	The opportunity to increase	their driving skills	during simulated	driving conditions.
Co	urso Contont			

Course Content:	40:00
Unit 1: Responsibilities, Standards, and Laws	
Orientation and Administration	1.00
Fire Apparatus Driver/Operator Responsibilities	
Legal Aspects of Emergency and Nonemergency Driving	
Unit 2: Inspection, Basic Maintenance, Documentation, and Troubleshooting	
Introduction to Inspection, Basic Maintenance, and Troubleshooting	0:30
Inspection and Basic Maintenance of the Driver and Crew Areas, Apparatus Body,	
and Compartmentation	
Inspection and Basic Maintenance of the Frame, Axles, Steering and Suspension Systems,	
Driveline, Wheels, and Tires	
Troubleshooting the Frame, Axles, Steering and Suspension Systems, Driveline, Wheels,	
And Tires	0:30
Inspection and Basic Maintenance of Engine Systems	
Troubleshooting Engine Systems	



PO Box 944246, Sacramento CA 94244-2460

FIRE APPARATUS DRIVER/OPERATOR 1A COURSE OUTLINE

Inspection and Basic Maintenance of the Transmission and Clutch	0:15
Troubleshooting the Transmission and Clutch	0:15
Inspection and Basic Maintenance of the Starting, Charging, and Other Electrical Systems	0:30
Troubleshooting the Starting, Charging, and Other Electrical Systems	
Inspection and Basic Maintenance of Brake Systems	1:30
Troubleshooting Brake Systems	1:00
Inspection and Basic Maintenance of Auxiliary and Accessory Equipment	0:15
Inspection Documentation and Reports	0:15
Pretrip Inspection Procedures	
Unit 3: Driving Practices	
Accident Statistics and Liability	0:30
Principles of Defensive Driving	
Driving Apparatus to Incidents	1:00
Principles of Off-Road Driving	1:00
Principles of Braking and Stopping	
Principles of Steering and Load Control	1:30
Driving During Adverse Weather Conditions	0:15
Positioning Apparatus	1:00
Unit 4: Mandatory Driving Exercises	
Introduction to the Mandatory Driving Exercises	0:30
Unit 5: Optional Driving Exercises	
Introduction to the Optional Driving Exercises	
Practice and Testing the Driving Exercises	
Unit Tests	
Course Review and Certification Exam	1:00



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Apparatus Driver/Operator 1B: Pump Operations (2008) CFSTES			
Hours:	40			
Designed For:	Fire service emergency response personnel			
Description:	Updated to reflect the 2009 NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications and requires a textbook and student supplement. This course provides the student with information on pump construction and theory of pump operations. Topics include methods for performing basic hydraulics and techniques on basic inspections, documentation, maintenance, and troubleshooting fire pumps. Each student also has the opportunity to increase his or her pumping skills during simulated pumping conditions.			
Prerequisites:	California drivers license, Class A, B or C, with a fire fighter endorsement Fire Fighter I training recommended			
Certification:	Fire Apparatus Driver/Operator I			
Class Size:	25			
Restrictions:	This course requires a site with adequate materials and equipment to deliver the training according to the course outline.			
REQUIRED STUDENT MATERIALS EDITION VENDORS				
Pumping Apparatus	Driver/Operator Handbook	Second	CFCA or FPP	
Student Supplement	· · · ·	2008	SFT	
	REQUIRED INSTRUCTOR MATERIALS			
Certification Exam 2008 SFT			SFT	
Instructor Guide	Instructor Guide 2008 SFT			
PowerPoint Slides on CD-ROM (Optional) 2008 SFT			SFT	
Pumping Apparatus Driver/Operator Handbook Second CFCA or			CFCA or FPP	
Student Supplement		2008	SFT	

VENDORS		
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	www.calchiefs.org
FPP	Fire Protection Publications (800-654-4055)	www.ifsta.org
SFT	State Fire Training Bookstore (916-445-8158)	http://sft.fire.ca.gov

FIRE APPARATUS DRIVER/OPERATOR 1B COURSE OUTLINE

- Information on pump construction and theory of pump operations.
- Methods for performing basic hydraulics.
- Information and techniques on inspections, documentation, maintenance, and troubleshooting.
- The opportunity to increase their pumping skills during simulated pumping conditions.

Course Content:	
Unit 1: Responsibilities, Standards, and Laws	
Orientation and Administration	
Fire Apparatus Driver/Operator Responsibilities	0:30
Unit 2: Fire Pump Construction and Theory	
Types of Fire Pumps	0:45
Pump Mounting and Drive Arrangements	0:30
Pump Piping and Valves	0:15
Automatic Pressure Control Devices	0:15
Priming Devices	0:15
Pump Panel Instrumentation Auxiliary Cooling Devices	0:15
Auxiliary Cooling Devices	0:15
Unit 3: Hydraulics	
Basic Hydraulic Terminology and Symbols	0:30
Mathematics Review	
Characteristics of Water and Principles of Pressure	0:30
Principle Features of Water Systems	0:15
Nozzle Theory	0:30
Calculating Gallons Per Minute	



PO Box 944246, Sacramento CA 94244-2460

FIRE APPARATUS DRIVER/OPERATOR 1B COURSE OUTLINE

Principles of Friction Loss	
Friction Loss Formulas and Calculations	
Pump Discharge Pressure	
Fireground Hydraulic Calculations	
Unit 4: Inspection, Maintenance, and Troubleshooting	
Inspecting the Pump Drive Systems	
Inspecting the Pump Priming Systems	
Inspecting the Pump Pressure Control Systems	
Pump Service Testing	
Maintenance of the Pump and Control Systems	
Unit 5: Pump Practices	
Making the Pump Operational (From Tank)	
Transitioning to an External Water Supply	
Operating From a Hydrant	
Principles and Practices of Drafting Operations	
Principles of Relay Pump Operations	
Troubleshooting Pump Operations	
Principles of Tandem Pump Operations	
Principles of Dual Pumping Operations	
Principles and Practices of Foam Operations	
Sprinkler and Standpipe Support	
Unit 6: Pumping Exercises	
Introduction to the Pumping Exercises	
Practice and Testing the Pumping Exercises	
Unit Tests	
Course Review and Certification Exam	



PO Box 944246, Sacramento CA 94244-2460

FIRE FIGHTING/RESCUE COURSES

Course:	Auto Extrication (1996)		FSTE
Hours	16		
Designed For:	All fire service personnel		
Description:	Provides hands-on experience in the procedures and systems utilize		
	extrication. Subjects covered include: Auto extrication, types of har		
	windows, opening doors, removing roofs, pulling steering wheels, i		
D	dashboards, pulling seats, stabilization of vehicles, and simulated re	escues of trappe	ed victims.
Prerequisites:	None		
Certification:	None		
Class Size:	40 Batis 10.1 (feed ille and feine)		
Student/Instructor:	Ratio 10:1 (for skills proficiency)	o dell'a des co	
Restrictions:	This course requires a site with adequate materials and equipment t	to deliver the tr	aining
	according to the course outline. REQUIRED STUDENT MATERIALS	EDITION	VENDORS
None	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
None	REQUIRED INSTRUCTOR MATERIALS		
None	REQUIRED INSTRUCTOR MATERIALS		
None			
	AUTO EXTRICATION COURSE OUTLINE		
	o provide the student with		
	e incidents they might encounter and the procedures and systems use	ed during auto e	extrication.
	e types of auto extrication tools and their uses.		
	dure for maintaining auto extrication tools.		
	perform a rescue and use auto extrication tools during an exercise in	nvolving simula	ted victims an
alorday battered			
damaged vehicles			
ourse Content			
ourse Content Introduction and (Course Procedures		0:3
ourse Content Introduction and C Safety Precautions	Course Proceduress		0:3 0:1
Durse Content Introduction and (Safety Precautions Auto Extrication S	Course Procedures s Size-up		0:3 0:1 1:C
ourse Content Introduction and (Safety Precautions Auto Extrication S Types of Incidents	Course Proceduress s Size-up s That May be Encountered		0:3 0:1 1:0 1:0
Durse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and	Course Proceduress s Size-up s That May be Encountered d Their Application		0:3 0:1 1:0 1:0 1:0
Durse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman	Course Proceduress s Size-up s That May be Encountered d Their Application nd System for Auto Extrication		0:3 0:1 1:0 1:0 1:0 1:0 0:3
Durse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t	Course Proceduress s Size-up s That May be Encountered d Their Application nd System for Auto Extrication the Front Windshield		0:3 0:1 0:1 1:0 0:1 1:0 0:3 0:2
Durse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S	Course Proceduress s Size-up s That May be Encountered Ind Their Application Ind System for Auto Extrication the Front Windshield Side and Rear Windows		0:3 0:1 0:1 1:0 0:1 1:0 0:3 0:2 0:1
Durse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D	Course Proceduress s Size-up s That May be Encountered id Their Application nd System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter		0:3 0:1 0:1 1:0 0:3 0:2 0:1 0:1 0:1
urse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D	Course Proceduress ss Size-up s That May be Encountered d Their Application d System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter		0:3 0:1 1:0 1:0 0:1 1:0 0:3 0:2 0:1 0:1 0:1 0:2
urse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove S How to Remove S How to Open a D How to Open a D How to Pull a Do	Course Proceduress s Size-up s That May be Encountered d Their Application d System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge for Using a Come-along		0:3 0:1 0:1 1:0 1:0 0:3 0:2 0:1 0:1 0:2 0:1 0:2 0:1 0:1
Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Pull a Doo How to Remove a	Course Proceduress ss Size-up s That May be Encountered ad Their Application ad System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge oor Using a Come-along a Roof Using an Air Chisel		0:3 0:1 0:1 1:0 1:0 0:3 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Durse Content Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove s How to Open a D How to Open a D How to Pull a Doo How to Remove a How to Remove a How to Cut "A" P	Course Proceduress s Size-up s That May be Encountered ad Their Application ad System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Spreader and Wedge por Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw		0:3 0:1 0:1 1:0 1:0 0:3 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Introduction and C Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove S How to Open a D How to Open a D How to Pull a Doo How to Remove a How to Cut "A" P How to Remove a	Course Proceduress ss Size-up s That May be Encountered ad Their Application ad System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Panel Cutter Door Using a Spreader and Wedge por Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack		0:3 0:1 0:1 1:0 1:0 1:0 0:3 0:2 0:1 0:1 0:1 0:1 0:2
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Pull a Doo How to Remove a How to Cut "A" P How to Remove a How to Pull a Stee	Course Proceduress ss Size-ups That May be Encountered ad Their Application and System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Panel Cutter Door Using a Spreader and Wedge poor Using a Spreader and Wedge a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack pering Wheel Using a Come-along		0:3 0:1 0:1 1:0 1:0 1:0 0:3 0:2 0:1 0:1 0:1 0:1 0:2 0:1 0:2 0:1 0:1 0:2 0:1 0:1 0:3 0:2 0:1 0:1 0:1 0:3 0:2 0:1 0:1 0:3 0:2 0:1 0:3 0:2 0:1 0:3 0:2 0:1 0:3 0:2 0:1 0:3 0:2 0:1 0:3 0:2 0:1 0:3 0:2 0:1 0:1 0:3 0:2 0:1 0:1 0:1 0:3 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Pull a Doo How to Remove a How to Pull a Stee How to Pull a Stee	Course Proceduress ss Size-ups That May be Encountered ad Their Application ad System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Spreader and Wedge Poor Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack pering Wheel Using a Come-along pering Wheel Using a High-lift Jack		0:3 0:1 1:0 1:0 0:1 0:3 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Durse Content Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove a How to Open a D How to Open a D How to Open a D How to Pull a Do How to Remove a How to Cut "A" P How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee	Course Proceduress s Size-up s That May be Encountered ad Their Application ad System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Spreader and Wedge Door Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack pering Wheel Using a Come-along thereing Wheel Using a High-lift Jack		0:3 0:1 0:1 0:1 0:1 0:3 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove s How to Open a D How to Open a D How to Pull a Do How to Remove a How to Cut "A" P How to Remove a How to Pull a Stee How to Pull a Stee	Course Proceduress s Size-up s That May be Encountered ad Their Application the Application the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge poor Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack pering Wheel Using a Come-along thereing Wheel Using a High-lift Jack pering Wheel Using Seatbelts and the Hood pering Wheel Using a Scissor Jack		0:3 0:1 1:0 1:0 0:3 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Open a D How to Pull a Do How to Remove a How to Remove a How to Remove a How to Remove a How to Pull a Stee How to Pull a Stee	Course Proceduress s Size-up s That May be Encountered ad Their Application hd System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Spreader and Wedge Door Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack evering Wheel Using a Come-along the reing Wheel Using Seatbelts and the Hood evering Wheel Using a Scissor Jack ering Wheel Ring With a Bolt Cutter		0:3 0:1 1:C 1:C 1:C 0:3 0:2 0:1 0:2 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Open a D How to Pull a Do How to Remove a How to Remove a How to Remove a How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Cut a Stee How to Cut a Stee	Course Proceduress s Size-up s That May be Encountered ad Their Application hd System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Spreader and Wedge Door Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack evering Wheel Using a Come-along tering Wheel Using Seatbelts and the Hood evering Wheel Using a Scissor Jack ering Wheel Ring With a Bolt Cutter ot Peddles Using Seatbelts		0:3 0:1 1:C 1:C 1:C 0:3 0:2 0:1 0:2 0:1 0
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Open a D How to Pull a Dou How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Cut a Stee How to Move Foo How to Raise a D	Course Proceduress ss Size-up s That May be Encountered ad Their Application ad System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Spreader and Wedge Door Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack evering Wheel Using a Come-along the tring Wheel Using a High-lift Jack evering Wheel Using a Scissor Jack evering Wheel Ring With a Bolt Cutter Doash Using High-lift Jacks		0:3 0:1 1:0 1:0 1:0 1:0 1:0 1:0 1:0 0:3 0:2 0:1 0:2 0:1 0
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove S How to Remove S How to Open a D How to Open a D How to Pull a Doo How to Pull a Doo How to Remove a How to Cut "A" P How to Remove a How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Cut a Stee How to Remove Foo How to Remove Foo How to Remove Foo	Course Proceduress s Size-up s That May be Encountered d Their Application nd System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Spreader and Wedge Door Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack tering Wheel Using a Come-along tering Wheel Using a High-lift Jack tering Wheel Using a Scissor Jack ering Wheel Ring With a Bolt Cutter ot Peddles Using Seatbelts Dash Using High-lift Jacks Dash Using a Come-along		0:3 0:1 0:1 1:0 1:0 1:0 0:3 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Incidents Types of Tools and Incident Comman How to Remove S How to Open a D How to Open a D How to Open a D How to Open a D How to Pull a Dou How to Pull a Dou How to Remove a How to Cut "A" P How to Remove a How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Cut a Stee How to Raise a D How to Pull a Fro How to Pull a Fro	Course Proceduress s Size-up s That May be Encountered ad Their Application ad System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Panel Cutter Door Using a Spreader and Wedge Door Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel, Hacksaw, and High-lift Jack beering Wheel Using a Come-along thering Wheel Using a High-lift Jack thering Wheel Using a Scissor Jack ering Wheel Using Seatbelts and the Hood thering Wheel Ring With a Bolt Cutter Doash Using High-lift Jack Doash Using a Come-along Doash Using a High-lift Jack		0:3 0:1 1:0 1:0 1:0 1:0 1:0 1:0 1:0 0:1 0:2 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove S How to Open a D How to Open a D How to Open a D How to Pull a Doo How to Pull a Doo How to Pull a Doo How to Remove a How to Cut "A" P How to Remove a How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Rull a Fro How to Pull a Fro How to Pull a Fro How to Pull a Fro How to Take Out	Course Proceduress s Size-up s That May be Encountered d Their Application nd System for Auto Extrication the Front Windshield Side and Rear Windows Door Using a Panel Cutter Door Using a Panel Cutter Door Using a Spreader and Wedge Poor Using a Come-along a Roof Using an Air Chisel Pillars Using a Hacksaw a Roof Using an Air Chisel , Hacksaw, and High-lift Jack pering Wheel Using a Come-along thering Wheel Using a High-lift Jack evering Wheel Using a Seatbelts and the Hood evering Wheel Using Seatbelts and the Hood thering Wheel Ring With a Bolt Cutter ot Peddles Using Seatbelts Dash Using High-lift Jacks a "B" Pillar Using an Air Chisel		0:3 0:1 1:0 1:0 1:0 1:0 1:0 0:1 0:2 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove s How to Open a D How to Open a D How to Open a D How to Pull a Do How to Pull a Do How to Remove a How to Remove a How to Remove a How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Rull a Stee How to Raise a D How to Raise a D How to Pull a Fro How to Pull a Fro How to Take Out How to Use Cribb	Course Proceduress s Size-up s That May be Encountered		0:3 0:1 1:0 1:0 1:0 0:1 0:3 0:2 0:1 0:2 0:1 0:2 0:1 0:2 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Open a D How to Open a D How to Pull a Do How to Pull a Do How to Remove a How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Pull a Stee How to Rull a Fro How to Pull a Fro How to Pull a Fro How to Take Out How to Use Cribb How to Make a Ti	Course Proceduress s Size-up s That May be Encountered id Their Application and System for Auto Extrication		0:3 0:1 1:0 1:0 1:0 0:1 0:2 0:1 0:2 0:1 0:1 0:1 0:1 0:1 0:1 0:1 0:1
Introduction and G Safety Precautions Auto Extrication S Types of Incidents Types of Tools and Incident Comman How to Remove t How to Remove S How to Open a D How to Open a D How to Open a D How to Pull a Do How to Pull a Do How to Pull a Do How to Remove a How to Cut "A" P How to Remove a How to Cut "A" P How to Remove a How to Pull a Stee How to Remove Foo How to Raise a D How to Pull a Fro How to Pull a Fro How to Take Out How to Use Cribb How to Make a Ti Maintenance of A	Course Proceduress s Size-up s That May be Encountered		0:3 0:1 1:0 1:0 1:0 0:3 0:2 0:1 0:2 0:1 0:1 0:1 0:1



PO Box 944246, Sacramento CA 94244-2460

Cou	rse: Command and Control of the RIC Deployment (2011)		FSTEP
Ho	Jrs: 8		
Designed F	For: Fire officers who may be Incident Commanders at a fire fighter en	nergency	
Descripti	Description: This command level awareness course provides students with the terminology and methodology that is employed during a RIC deployment. Classroom simulations based on case studies allow students to participate in simulated RIC deployments. Students who wish to progress to the operational level may initiate a task book for additional experience.		
Prerequisi	Prerequisites: I-200, Fire Command 1A, and successful completion of precourse work RIC Tactics or RIC Operations is recommended		
Certificati	•		
Class Si	ze: 20		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Man 	ual	2011	SFT Website
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Gr 	uide	2011	SFT
 PowerPoint 	Slides on CD-ROM (Optional)	2010	SFT
 Student Man 	ual	2011	SFT
	VENDORS		
SFT Website	http://osfm.fire.ca.gov/training/trainingresources.php		
SFT	State Fire Training Bookstore (916-445-8158)	ht	tp://sft.fire.ca.gov

COMMAND & CONTROL OF THE RIC DEPLOYMENT COURSE OUTLINE

- Information on rapid intervention crew terminology and the tools required to conduct a rescue operation.
- A methodology for conducting a risk management assessment of structural fire fighting critical fireground factors.
- An analysis of fire fighter line-of-duty injuries and fatalities case studies, taking into account both risk and critical fireground factors.
- A command awareness and the control techniques required to effectively manage an emergency traffic event.
- Techniques to properly manage an emergency traffic situation when fire fighters become lost or trapped inside a burning structure.

Course Content	
Orientation and Administration	0:45
Critical Fireground Factors and the Risk Management Process	1:15
Fire Fighter Line-of-duty Death and Injury Case Studies	1:00
Command Awareness and Managing A RIC Deployment	1:30
Emergency Traffic Simulations	



PO Box 944246, Sacramento CA 94244-2460

Cour	se: Confined Space Rescue Awareness (1995)		FSTEP
Hou	rs: 7		
Designed F	or: All fire service personnel		
Descriptio	Description: This course provides instruction in identifying a permit and nonpermit required confined space, the hazards associated with confined spaces, target industries and hazards, state regulations, communications, and equipment requirements. This course does not qualify participants to make permit required entries.		
Prerequisit	Prerequisites: None		
Certificatio	on: None		
Class Siz	ze: 40		
Restrictio	ns: None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Gu 	ide	1995	SFT
	VENDORS		
SFT	State Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.gov

CONFINED SPACE RESCUE AWARENESS COURSE OUTLINE

- Information on the codes that affect operations within confined spaces.
- Information to identify confined spaces and permit confined spaces.
- Information on the hazards of confined spaces.
- Information on the equipment and procedures required to deal with a confined space rescue safely and legally.
- Information on the basic operational positions, and their responsibilities as set forth by Cal/OSHA.

Course Content	
Introduction to Cal/OSHA Code, Confined Space Identification and Dangers	1:30
Atmospheric Hazards and Air Monitors	
Physical and Engulfment Hazards	0:30
Lock-Out/Tag-Out Procedures and Entry Permits	
Ventilation Equipment and Techniques	0:30
Respiratory Equipment and Techniques	0:30
Communications Equipment and Techniques	
Entrant Retrieval Equipment	0:30
Confined Space Operational Positions and Responsibilities	
Course Review and Final Exam	



COURSE INFORMATION AND REQUIRED MATERIALS

FSTEF
or each of the
opane, and
es.
VENDORS
SFT Website
SFT
SFT
-
p://sft.fire.ca.go
0:3
0:1
1:0

Biodiesel	
Compressed Natural Gas (CNG)	
Liquified Natural Gas Propane (LNG)	
Propane	
Hydrogen	
Introduction to Electric Vehicles	
Electric Vehicles	
Hybrid Electric Vehicles	
Hybrid Electric Buses	
Fuel Cell Vehicles	
Introduction to Emergency Response	
Alternative Fuel Vehicle Emergencies & Fires	
Extrication Safety & Organization	
Vehicle & Refueling Activities	



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Control 1: Basic Fire Chemistry (1996)		FSTEP
Hours:	16		
Designed For:	All entry-level fire service personnel		
Description:	This course is a basic overview of fire chemistry and fire behavior designed for the beginning or a volunteer fire fighter. Includes: Classes of fire, fundamentals of heat transfer, fire characteristics of materials, products of combustion, hazardous and explosive materials, extinguishing agents, size-up, and exposure protection.		
Prerequisites:			
Certification:	n: None		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		
 None 			

FIRE CONTROL 1 COURSE OUTLINE

- Information on how and why fires start.
- Information on how and why fires spread.
- Information on how and why fires are controlled.

Course	Content	
1.	Course Introduction	0:30
2.	Classes of Fire	0:30
3.	Fundamentals of Combustion	
4.	Fundamentals of Heat Transfer	0:30
5.	Fundamentals of Extinguishment	0:30
6.	Fire Characteristics of Ordinary Combustible Solids	0:30
7.	Fire Characteristics of Flammable and Combustible Solids	
8.	Products of Combustion	
9.	Hazardous and Explosive Materials	
10.	Effects of Extinguishing Agent Application	
11.	Procedures for Size-Up	1:00
12.	Rescue Techniques	
13.	Exposure Protection Tactics	
	Ventilation Methods and Procedures	
15.	Methods Used to Confine Fire	
16.	Methods Used to Extinguish Fire	
17.	Methods Used to Overhaul Fire	0:30
18.	Salvage Operations	
19.	Pre-Fire Plans	
20.	Methods Used to Attain Additional Assistance During Multiple Alarm Fires	0:30



PO Box 944246, Sacramento CA 94244-2460

	Course: Hours:	Fire Control 2: Basic Operations – Structural (1996) 16		FSTEP
	Designed For:	All entry-level fire service personnel		
	Description:			
	Prerequisites:	None	0	
	Certification:	None		
	Class Size:	40		
	Restrictions:	None		
		REQUIRED STUDENT MATERIALS	EDITION	VENDORS
•	None			
		REQUIRED INSTRUCTOR MATERIALS		
	None			

FIRE CONTROL 2 COURSE OUTLINE

- Information on the types of tools used for basic fire operations.
- Methods and techniques for utilizing basic fire fighting tools.
- Methods and techniques for maintaining basic fire fighting tools.
- Information and utilization of pump operations and procedures.

Course Content	
Introduction to Basic Operations	
Use of Hose Nozzle and Fittings	
Use of Ground Ladders	
Use of Self Contained Breathing Apparatus	
Pump Operations in Theory	
Pump Operations in the Field	
Use of Fire Extinguishers	



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

Course: Fire Control 3A: Structural Fire Fighting in Acquired Structures (2009) **FSTEP** Hours: 16 **Designed For:** All fire service personnel **Description:** This course is designed to develop fundamental skills in combating structure fires by providing the students with a thorough understanding of fire behavior, ventilation procedures and techniques, interior fire attack, and exterior fire attack. In many cases, this will be the fire fighter's first exposure to live structural fire fighting. The structures used in class are generally donated buildings with a written agreement between the owner and the authority having jurisdiction (AHJ) specifying the live fire training that will be conducted and acknowledges the expected condition of the structure upon completion of the training. **Prerequisites:** Fire Control 2 (recommended) **Certification:** None Class Size: Dependent on the number of structures and size of the burn Student/Instructor: Ratio: 10:1 (Skills Proficiency) This course requires both a Primary Coordinator and a Senior Coordinator. This course also **Restrictions:** requires a site with adequate materials and equipment to deliver the training according to the course outline. **REQUIRED STUDENT MATERIALS EDITION** VENDORS None **REQUIRED INSTRUCTOR MATERIALS** Course Guide 2009 SFT VENDORS SFT State Fire Training Bookstore (916-445-8158) http://sft.fire.ca.gov **FIRE CONTROL 3A COURSE OUTLINE** Course Objectives: To provide the student with hands-on fire fighting experience in four mandatory exercises...

- Fire behavior.
- Interior attack.
- Ventilation.
- Exterior attack.

Exterior dilder.	
Course Content	8:00
Introduction and Briefing	
Fire Behavior Exercise	
Ventilation Exercise	
Interior Attack Exercise	
Exterior Attack Exercise	
Debriefing	

FIRE FIGHTING/RESCUE COURSES



Course:	Fire Control 3B: Structural Fire Fighting in Live-fire Simulators (20	00)	ESTEP
Hours	16	09)	TJILI
Designed For:	All fire service personnel		
Description:	This course is designed to develop fundamental skills in combatir	a structure fire	by providing
Description	the students with a thorough understanding of fire behavior, venti		
	techniques, interior fire attack, and exterior fire attack using a live		
	this will be the fire fighter's first exposure to live structural fire fighter		in many cases,
Prerequisites:	Fire Control 2 (recommended)	nung.	
Certification:	None		
Class Size:	40		
Student/Instructor:	Ratio: 10:1 (Skills Proficiency)		
Restrictions:	This course requires both a Primary Coordinator and a Senior Coordinator	ordinator. This (course also
Kestrictions.	requires a site with adequate materials and equipment to deliver t		
	course outline.	the training dee	ording to the
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
None			
	REQUIRED INSTRUCTOR MATERIALS		
 Course Guide 		2009	SFT
	VENDORS		
SFT State	Fire Training Bookstore (916-445-8158)	ht	tp://sft.fire.ca.gov
	<u> </u>		
	FIRE CONTROL 3B COURSE OUTLINE		
Course Objectives: To	provide the student with hands-on fire fighting experience in four	mandatory exe	rcises
Fire behavior.			
Interior attack.			
Interior attack. Ventilation.			
Ventilation. Exterior attack.			8:00
Ventilation. Exterior attack. Course Content			
Ventilation. Exterior attack. Course Content Introduction and E	Briefing		0:30
 Ventilation. Exterior attack. Course Content Introduction and E Fire Behavior Exer 	Briefing		0:30 2:00
 Ventilation. Exterior attack. Course Content Introduction and E Fire Behavior Exer Ventilation Exercise 	Briefing cise		0:30 2:00 2:00
 Ventilation. Exterior attack. Course Content< <p>Introduction and E Fire Behavior Exer Ventilation Exercise Interior Attack Exer </p> 	Briefing cise		0:30 2:00 2:00 1:30



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Control 4: Oil and Gas Fire Fighting (1997)		FSTEP
Hours:	16		
Designed For:	All fire service personnel		
Description:	This course utilizes live fire situations to hands-on experience in c and flammable liquids. Topics include flammable liquid and gas f extinguishing agents, transportation fires, water flow requirements	ire behavior, sa	fety,
Prerequisites:	None		
Certification:	None		
Class Size:	40		
Student/Instructor:	Ratio: 10:1 (Skills Proficiency)		
Restrictions:	This course requires both a Primary Instructor and a Senior Instruc	ctor. This course	e also requires a
	site with adequate materials and equipment to deliver the training outline.	g according to th	ne course
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		

None

FIRE CONTROL 4 COURSE OUTLINE

- Information on the concept of chemistry of foam for fire suppression.
- Information on the use of proportional and nonproportional concentrate injection systems.
- Methods for operation and performance of fog nozzles, aspirating nozzles, and foam tubes (NAFS) as well as compressed air foam systems (CAFS).
- Information on application techniques, current research, and report on the use of Class B foaming agents for urban, rural, refinery, and pipeline emergencies.

Course Content	
Introduction	
Characteristics of Flammable Liquids	
Resources Available for Spills Without Fire	
Safety Procedures for Foam Application	0:15
Foaming Agents	
Introduction to Pipeline Related Emergencies	
Eductors, Proportioners, and Systems	
Aspirating Nozzles and Foam Delivery	
Flammable Liguids Case Histories and Review	
Field Exercises	



COURSE INFORMATION AND REQUIRED MATERIALS

Course	: Fire Control 4A: Flammable Gases Fire Fighting (1996)		FSTEP
Hours			
Designed For	: All fire service personnel		
Description	This course utilizes the flammable liquids and gas (FLAG) to provide hands-on experience in combating fires involving f flammable gas fire behavior, safety, control methods and ex and water flow requirements.	lammable gases. Subje	ects include
Prerequisites	•		
Certification			
Class Size			
Student/Instructor	Ratio: 10:1 (Skills Proficiency)		
Restrictions	 This course requires both a Primary Instructor and a Senior site with adequate materials, equipment, and FLAG trailer t course outline. 		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
None			
	REQUIRED INSTRUCTOR MATERIALS		
Instructor Guid	2	1996	SFT
	VENDORS		
SFT St	ate Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.gov
	FIRE CONTROL 4A COURSE OUTLINE		
	To provide the student with the characteristics and hazards of flammable gases.		
	rocedures on handling flammable gases whether involved in fir	o or not	
	to utilize control methods on flammable gases.		
			6:00
	ction and Administration		
Characteristics	of Flammable Gases		0:30

Hazards of Flammable Gases Tactics to Utilize on Flammable Gases Not Involved With Fire	
Tactics to Utilize on Flammable Gases Involved With Fire	
BLEVE Situations	
Field Exercises	



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Control 4B: Flammable Liquids Fire Fighting (1996)		FSTE
Hours:	6		
Designed For:	All fire service personnel		
Description:	This course utilizes the flammable liquids and gas (FLAG) trailer to and provide hands-on experience in combating flammable and co include fire behavior, safety, control methods and extinguishing as water flow requirements.	mbustible liqui	d fires. Subjects
Prerequisites:	None		
Certification:	None		
Class Size:	40		
Student/Instructor:	Ratio: 10:1 (Skills Proficiency)		
	site with adequate materials, equipment, and FLAG trailer to deliv course outline.	-	_
		er the training a	vendors
None	course outline.	-	
None	course outline.	-	
None Instructor Guide	course outline. REQUIRED STUDENT MATERIALS	-	
	course outline. REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Instructor Guide	course outline. REQUIRED STUDENT MATERIALS REQUIRED INSTRUCTOR MATERIALS	EDITION 1996	VENDORS
Instructor Guide	course outline. REQUIRED STUDENT MATERIALS REQUIRED INSTRUCTOR MATERIALS VENDORS	EDITION 1996	VENDORS SFT
Instructor Guide	course outline. REQUIRED STUDENT MATERIALS REQUIRED INSTRUCTOR MATERIALS VENDORS	EDITION 1996	VENDORS SFT
Instructor Guide	course outline. REQUIRED STUDENT MATERIALS REQUIRED INSTRUCTOR MATERIALS VENDORS e Fire Training Bookstore (916-445-8158)	EDITION 1996	VENDORS SFT

Methods and procedures on handling flammable liquids whether involved or not involved with fire. •

. Laws and regulations pertaining to flammable liquids in California and at the national level.

An opportunity to utilize control methods on flammable liquids.

An opportunity to utilize control methods on naminable inquids.	
Course Content	6:00
Course Introduction and Administration	0:30
Characteristics of Flammable Liquids	0:30
Hazards of Flammable Liquids	
Tactics to Utilize on Flammable Liquids Not Involved With Fire	0:30
Tactics to Utilize on Flammable Liguids Involved With Fire	
Case Studies of Flammable Liquid Incidents	
Field Exercises	



Course:	Fire Control 4A and 4B: Flammable Gases and Liquids Fire Fighti	ing (1996)	FSTEF
Hours	8	ing (1990)	13121
Designed For:	All fire service personnel		
Description	•	to generate live	fire situations
	and provide hands-on experience in combating flammable and c		
	include fire behavior, safety, control methods and extinguishing a	agents, transport	ation fires, and
	water flow requirements.		
Prerequisites:			
Certification:	None		
Class Size:			
Student/Instructor:	Ratio: 10:1 (Skills Proficiency)		
Restrictions	This course requires both a Primary Instructor and a Senior Instru		
	site with adequate materials, equipment, and FLAG trailer to deli course outline.	ver the training	according to the
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 	REQUIRED STODENT MATERIALS	LUTTION	VENDORS
- None	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS
 Instructor Guide 		1996	SFT
	VENDORS	-	
SFT Stat	e Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov
	FIRE CONTROL 4A/4B COURSE OUTLINE		
Course Objectives:	o provide the student with		
	ne characteristics and hazards of flammable gases and liquids.		
	cedures on handling flammable gases and liquids whether involved	l in fire or not.	
 Laws and regula 	ions pertaining to flammable liquids in California and at the nationa	al level.	
An opportunity t	o utilize control methods on flammable gases and liquids.		
Course Content			8:00

Course Content	
Course Introduction and Administration	0:30
Characteristics of Flammable Gases and Liquids	0:45
Hazards of Flammable Gases and Liquids	0:45
Tactics to Utilize on Flammable Gases and Liquids Not Involved With Fire	
Tactics to Utilize on Flammable Gases and Liquids Involved With Fire	0:45
BLEVE Situations	0:30
Case Studies of Flammable Liquid Incidents	0:30
Field Exercises	



Course:	Fire Control 5: Aircraft Rescue and Fire Fighting (19	988)	FSTEP
Hours	16 without a live burn or 24 with a live burn		
Designed For:	All fire service personnel		
Description:	This course provides students with the methods and services at airports. Subjects include using convent extinguishing agents, types of aircraft, standby proc agent systems, and operations at crash scenes. The	tional fire and specialized CFR a cedures, aqueous film forming f	apparatus, CFR oam, dual
Prerequisites:	None		
Certification:	None		
Class Size:	40		
Student/Instructor:	Ratio: 10:1 (Skills Proficiency)		
Restrictions:	This course requires a Senior Instructor if the class requires a site with adequate materials and equipm course outline.	nent to deliver the training acco	rding to the
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		
None			
	VENDORS		
SFT State Fire T	raining Bookstore (916-445-8158)	http	o://sft.fire.ca.gov
	FIRE CONTROL 5 COURSE OU	TLINE	
Course Objectives: T	o provide the student with		
,	ganizing and equipping an airport CFR service.		
	ocedures and techniques for CFR operations.		
•	techniques of utilizing CEP tools and equipment		

- The methods and techniques of utilizing CFR tools and equipment.
- Proper procedures on the maintenance and storage of CFR tools and equipment.

Course Content	
Identify Organization of an Airport CFR System	
Identify Types of Specialized Tools and Equipment Used for CFR	0:20
Utilizing Conventional Fire Apparatus and Equipment for CFR	0:20
Identify Types of Extinguishing Agents Used for CFR	0:30
Identify Types of Aircraft	0:30
Identify Safety Procedures When Working With Aircraft	0:20
Describe Standby Procedures for Incoming Aircraft With Possible CFR Problems	0:30
Identify Methods of Positioning Apparatus and Personnel at the CFR Scene	
Operate Dry and CO ₂ Chemical Fire Extinguishers	
Operate Pressurized Water Fire Extinguishers With AFFF Additive	
Operate Dry Chemical and PW With AFFF Extinguishers in Dual Agent Application	
Operate Conventional and Specialized CFR Apparatus	
Use a Refractometer to Verify Proper Foam Delivery	
Position Apparatus for CFR Standby Position	
Position Apparatus at an On-Field Crash Position	
Use Specialized CFR Apparatus to Control an On-Field Crash	
Use Conventional Apparatus to Control an On-Field Crash	
Recharge Specialized CFR Apparatus	
Inspect and Maintain Specialized CFR Apparatus	
Store Airport CFR Apparatus	0:30



SFT

COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

	Course:	Fire Control 6: Wildland Fire Fighting Essentials (1992)		FSTEP	
	Hours:	16			
	Designed For:	All fire service personnel			
	Description:				
	and Rescue Mutual Aid Plan, Incident Command System, wildland fire fighting strategy and tactics, structure triage, terminology, survival skills and operating safely in a wildland fire-fighting incident.				
	Prerequisites:	None			
	Certification:	ertification: None			
	Class Size:	e: 40			
	Restrictions:	None			
		REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
•	None				
		REQUIRED INSTRUCTOR MATERIALS			
	Instructor Guide		1992	SFT	
	VENDORS				

Course Objectives: To provide the student with...

• An overview of the California Fire and Rescue Mutual Aid Plan and their responsibilities participating in a strike team.

FIRE CONTROL 6 COURSE OUTLINE

Information using the ICS during emergency operations while responding as strike team.

State Fire Training Bookstore (916-445-8158)

- A variety of methods and techniques to operate in a wildland suppression effort with safety.
- An opportunity to apply major principles of strategy and tactics in wildland fire fighting operations.
- The tactics and methods to provide structure protection during wildland fire suppression.
- Wildland fire fighting survival skills for potential extreme wildland fire conditions.

Course Content	
Orientation and Administration	0:30
Wildland/Urban Interface Fire	
Concepts of ICS Organization	
State Fire and Rescue Mutual Aid Plan	
Surviving the Strike Team Response	
"Agency Specific" Strike Team Standard Operating Procedures	1:00
Wildland Fire Terminology	
Factors Affecting Wildland Fires	1:00
Defensive and Offensive Strategies in Wildland Fire Fighting	0:30
The Use of Direct and Indirect Attacks on Wildland Fires	0:30
Structure Triage	1:00
Using Structures and Vehicles for Refuge in Wildland Fires	0:30
Wildland Fire Safety	
Safety Precautions to Be Used Around Aircraft	0:30
Fundamentals of Fire Shelters	2:00
How to Deploy Fire Shelters	0:30
Course Review and Evaluation	1:30

http://sft.fire.ca.gov



COURSE INFORMATION AND REQUIRED MATERIALS

Course:	Fire Control 7: Wildland Fire Fighting		FSTEP
Hours:	16		
Designed For:	All fire service personnel		
Description:	This course provides hands-on experience in fighting wildland or agricultural crop fires. Exercises include: Fire behavior, hand tools, helicopter support, dozer operations, mobile pumping, backfiring/burning out safety, progressive hose lays, water tender shuttle, initial attack, and wildland fire investigation.		
Prerequisites:	Fire Control 6 (recommended)		
Certification:	None		
Class Size:	40		
Student/Instructor:	Ratio: 10:1 (Skills Proficiency)		
Restrictions:	This course requires both a Primary Instructor and a Senior Instructor. This course also requires a site with adequate materials and equipment to deliver the training according to the course outline. A course outline must be submitted and approved by State Fire Training.		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		
 None 			
	FIRE CONTROL 7 COURSE OUTLINE		
 None 			



Course:	Fire Fighter I (2001)		CFSTES
Hours:	259 plus manipulative performance testing		
Designed For:	Entry-level fire fighters		
Description:	This course provides the fire fighter with the knowledge and skills t minimal supervision, essential and advanced fireground tasks, basic prevention and fire investigation tasks, and to use, inspect, and ma equipment.	c rescue operati	ions, basic fire
Prerequisites:	None		
Certification:	Fire Fighter I		
Class Size:	Department determination		
Restrictions:	This course requires a site with adequate materials and equipment according to the course outline.	to deliver the tr	aining
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS

 Various Fire 	e Service Training Manuals (refer to Instructor Guide)		CFCA or FPP Delmar JB FIRESCOPE NWCG	
	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS	
 Instructor C 	Guide	2001	SFT	
	I Training Record *available on-line at: fire.ca.gov/training/training_information.php	2001	SFT	
	VENDORS			
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	W	ww.calchiefs.org	
Delmar	Delmar Thomson Learning (800-347-7707)		sonlearning.com	
FIRESCOPE	Firefighting Resources of California Organized for Potential Emergencies www.firescope.org		ww.firescope.org	
FPP	Fire Protection Publications (800-654-4055) www.ifsta.org		www.ifsta.org	
JB	Jones and Bartlett Publishers (800-832-0034 x2) www.jbpub.com		www.jbpub.com	
NWCG	National Wildlife Coordinating Group (208-387-5119)		www.nwcg.gov	
SFT	State Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov	



Course:	Fire Fighter II (2001)		CFSTES
Hours:	111 plus manipulative performance testing		
Designed For:	Probationary fire fighters		
Description:	This course expands upon the depth of knowledge provided to the certified to the Fire Fighter I level. It includes information, technique and advanced fireground tasks, rescue operations, inspection and n and hydraulic tools, techniques for educating the public.	es, and method	s of essential
Prerequisites:	Fire Fighter I		
Certification:	Fire Fighter II		
Class Size:	Department determination		
Restrictions:	This course requires a site with adequate materials and equipment according to the course outline.	to deliver the tra	aining
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS

	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Various Fire Service Training Manuals (refer to Instructor Guide) 			CFCA or FPP Delmar JB FIRESCOPE NWCG
	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS
 Instructor C 	Guide	2001	SFT
	 Fire Fighter II Training Record *available on-line http://osfm.fire.ca.gov/training/training_information.php 2001 		SFT
	VENDORS		
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	W	ww.calchiefs.org
Delmar	Delmar Thomson Learning (800-347-7707)	esales@thomsonlearning.com	
FIRESCOPE	Firefighting Resources of California Organized for Potential Emergencies	f California Organized for Potential Emergencies www.firescope.org	
FPP	Fire Protection Publications (800-654-4055)		www.ifsta.org
JB	Jones and Bartlett Publishers (800-832-0034 x2) www.jbpub.com		www.jbpub.com
NWCG	National Wildlife Coordinating Group (208-387-5119)		www.nwcg.gov
SFT	State Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov



PO Box 944246, Sacramento CA 94244-2460

Cours	se: Fire Fighter Survival (2010)		FSTEP
Hou	rs: 16		
Designed Fo	or: All fire service personnel		
Descriptio	This course was developed in the continuing effort to reduce the number of fire fighter injuries and fatalities that occur on an annual basis and provides a greater understanding how to avoid committing fatal errors on the fireground. Avoiding situations that could cause you to become lost, trapped, or injured is the best way to prevent tragedies at a fire scene. Topics include fire fighter survival terminology, developing a survival attitude, increasing situational awareness, and being trained in problem-solving techniques so you can become more self reliant in an emergency. Case studies will be reviewed to outline factors common in many line-of-duty deaths (LODDs) across the nation.		
Prerequisit			
Certificatio			
Class Siz		imary Instructors	:)
Restriction			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Instructor/Stu 	dent Manual (combined document)	2010	SFT
	REQUIRED INSTRUCTOR MATERIALS		
Instructor/Stu	dent Manual (combined document)	2010	SFT
 PowerPoint S 	lides on CD-ROM (Optional)	2010	SFT
	VENDORS		
SFT	State Fire Training Bookstore (916-445-8158)	htt	o://sft.fire.ca.gov

FIRE FIGHTER SURVIVAL COURSE OUTLINE

- Course Objectives: To provide the student with...
- Fire fighter survival terminology.
- Knowledge of the federal government involvement to reduce fire fighter injuries and fatalities and the guidelines and laws put in place from tragic fire loss events.
- Fire fighter fatality case study recommendations to enhance fire fighter training to handle their own emergencies on the fireground.
- Techniques for developing fire fighter survival attitude and identify personal equipment that fire fighters should carry in their possession for self-preparedness measures.
- Situational awareness to prevent the fire fighter emergency and recognize critical structural fireground factors.
- Knowledge and the application of "When to call a fire fighter emergency" and emergency communications when fire fighters become lost, trapped, or disoriented inside a burning structure.
- SCBA knowledge and techniques for air awareness and SCBA air emergencies, and applying them during hands-on evolutions.

Course Content	
Orientation and Administration	
Developing A Survival Attitude	
Preventing the Fire Fighter Emergency	
The Fire Fighter Emergency	
SCBA Emergencies	
Fire Fighter Survival Skills	
 #1: SCBA Emergency Procedure Check 	

- #2: Calling "Mayday"
- #2: Caning Mayady
 #3: Reading Couplings
- #4: Window Hang
- #5: Hose Slide
- #6: Emergency Ladder Escape Hook-two/Slide-to-four Method
- #7: Entanglement Emergencies Swim or Sweep Method
- #8: Entanglement Emergencies SCBA Removal Method
- #9: Wall Breach
- #10: Changing Your SCBA Profile Nonremoval Method



PO Box 944246, Sacramento CA 94244-2460

FIRE FIGHTER SURVIVAL COURSE OUTLINE

- #11: Changing Your SCBA Profile Low or Reduced Profile (Partial-removal Method)
- #12: Changing Your SCBA Profile Zero or No Profile (Full-removal Method)
- #1: SCBA Confidence Course
- #2: SCBA Awareness



PO Box 944246, Sacramento CA 94244-2460

Course:	Fireline Safety Awareness for Hired Vendors (2011)		FSTEP
Hours:	8:00		
Designed For:	Hired vendors working with CAL FIRE or USFS on any active wildland fire, including water tender operators, heavy equipment with water operators (Skidgine), dozer operators, crew bus drivers, vehicle drivers, mechanics, fallers, swampers, and chain saw operators.		
Description:	This course provides an awareness of fireline safety to hired vendors who plan to engage in wildland fire suppression and other incident support activities. Topics include current safety training, relevant policy and procedures, how to recognize and mitigate risk, and maintain safe and effective practices while working under agency supervision on an incident. Upon successful completion of training, participants will receive a course completion card valid for one (1) year from date of issue.		
Prerequisites:	None		
Certification:	None		
Class Size:	40		
Restrictions:	5:1 student/skills evaluator ratio for fire shelter deployment skill		
Training Expiration:	Valid for one (1) year from date of training		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			

 None 			
	REQUIRED INSTRUCTOR MATERIALS		
 Incident R 	esponse Pocket Guide (NFES #1077) one for each student	Current	NWCG
 Instructor 	Guide	2011	SFT
 New Gene 	eration Practice Fire Shelters (1/5 shelter/student ratio)	Minimum of two large	NWCG; Online Retailers
 The New 	Generation Fire Shelter Video (NFES #2712)	2003	NWCG
 Wildland 	Personal Protective Equipment (One set as listed in Topic 13)		
	VENDORS		
NWCG	National Wildlife Coordinating Group (208-387-5119)		www.nwcg.gov
SFT	State Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov

FIRELINE SAFETY AWARENESS FOR HIRED VENDORS COURSE SYLLABUS

- Information on recent wildland events and hot topics
- Information for working on a wildland fire, including parts of a vegetation fire, situational awareness, fireline hazards, incident check-in, and radio procedures
- The 10 Standard Fire Orders and 18 Watch-out Situations
- Information on using the Incident Response Pocket Guide
- Techniques on the care, maintenance, and deployment of the new generation fire shelter
- Guidelines when working with California inmate fire crew

0	
Course Content:	8:00
Overview And Administration	0:15
Introduction to the Incident Response Pocket Guide	
Parts of a Vegetation Fire	0:30
Situational Awareness/Look up-Look down/Weather	0:45
The 10 Standard Fire Orders/LCES	0:30
The 18 Situations that Shout Watch Out	
Fireline Hazards and Strategies	0:30
Entrapment Avoidance	0:30
Lessons Learned and Hot Topics	0:30
Radio Procedures	0:30
Working with California Inmate Fire Crews	0:30
Incident Organization	0:30
Wildland Personal Protective Equipment	0:30
New Generation Fire Shelter and Deployment Skill	



C	Large Agine Beaus One retioned (2002)		ГСТГР
Course:	Large Animal Rescue Operational (2003)		FSTEP
Hours			<i>cc</i> •
Designed For:	Fire fighters, fire service personnel, animal control offic		
Description:	Fire departments are beginning to play a vital role in lar rescues can be a hazardous activity and pose a risk of se rescuers must be the first priority. This course provides responders can work in "concert" with each other, guid characteristics and behavior.	erious injury or death, the s the knowledge and skills no	afety of ecessary so
Prerequisites:	None		
Certification :	None		
Class Size:	25		
Restrictions:	This course requires a site with adequate materials and	equipment to deliver the tr	aining
	according to the course outline.		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 		2003	SFT
	REQUIRED INSTRUCTOR MATERIALS		
Instructor Guide		2003	SFT
 PowerPoint Slide 	s on CD-ROM (Optional)	2003	SFT
 Student Manual 	·	2003	SFT
	VENDORS		
SFT Stat	e Fire Training Bookstore (916-445-8158)	htt	o://sft.fire.ca.gov
	LARGE ANIMAL RESCUE OPERATIONAL COU	RSE OUTLINE	
Course Objectives: 1	o provide the student with		
	It large animal rescue as a technical rescue.		
	t prey animal behavior and characteristics.		
mornation abou			

- Information and training on emergency containment of large animals.Information and training on scene management and large animal operations.
- Information and training on large animal rescue equipment and application.
- Information and training on horse trailers and on-road accidents.
- Information and training on rope operations and large animals.
- Information and training on hauling, lifting, and lowering large animals.
- Information and training on vertical lifting operations with large animals.
- Information and training on water rescue with large animals.

Course Content. 8:00 Unit 1: Introduction to Large Animal Rescue 0:30 Introduction and History 0:30 Horse Characteristics and Behavior 0:30 The Emergency Rope Halter and Lead Line. 0:30 How to Approach a Loose Horse 0:15 How to Approach a Loose Horse 0:15 How to Apply an Emergency Rope Halter 0:15 Unit 2: Operations and Equipment 0:30 Scene Management and Operations 0:30 Large Animal Rescue Strap, Forward Application 0:15 How to Apply a Rescue Strap, Forward Application 0:15 Trailers and Trailer Operations 0:45 How to Apply a Rescue Strap, Rear Drag Application 0:15 How to Apply a Rescue Strap, Rear Drag Application 0:15 How to Apply a Rescue Strap, Rear Drag Application 0:15 How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope 0:15 How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope 0:15 How to Set Up a Piggyback Haul System 0:15 How to Operate a Piggyback Haul System 0:15 How to Operate a Piggyback Haul System 0:15 How to Operate a Piggyback	mornation and training on water rescue with large annuals.	
Introduction and History0:30Horse Characteristics and Behavior0:30The Emergency Rope Halter and Lead Line0:30How to Approach a Loose Horse0:15How to Apply an Emergency Rope Halter0:15How to Apply an Emergency Rope Halter0:15Unit 2: Operations and Equipment0:30Scene Management and Operations0:30How to Apply a Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope0:15How to Operate a Piggyback Haul System0:15Water Operations0:15Water Operations0:30		
Horse Characteristics and Behavior0:30The Emergency Rope Halter and Lead Line0:30How to Approach a Loose Horse0:15How to Apply an Emergency Rope Halter0:15Unit 2: Operations and Equipment0:30Scene Management and Operations0:30Large Animal Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:15Water Operations0:15Water Operations0:30		
The Emergency Rope Halter and Lead Line.0:30How to Approach a Loose Horse.0:15How to Apply an Emergency Rope Halter0:15Unit 2: Operations and Equipment0:30Scene Management and Operations0:30Large Animal Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:45How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:15Water Operations0:30	Introduction and History	0:30
How to Approach a Loose Horse0:15How to Apply an Emergency Rope Halter0:15Unit 2: Operations and Equipment0:30Scene Management and Operations0:30Large Animal Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30		
How to Apply an Emergency Rope Halter0:15Unit 2: Operations and Equipment0:30Scene Management and Operations0:30Large Animal Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30	The Emergency Rope Halter and Lead Line	
How to Apply an Emergency Rope Halter0:15Unit 2: Operations and Equipment0:30Scene Management and Operations0:30Large Animal Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30	How to Approach a Loose Horse	
Scene Management and Operations0:30Large Animal Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:15Water Operations0:30	How to Apply an Emergency Rope Halter	
Large Animal Rescue Equipment0:30How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:15Water Operations0:30	Unit 2: Operations and Equipment	
How to Apply a Rescue Strap, Forward Application0:15How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:15Water Operations0:30	Scene Management and Operations	
How to Apply the Vertical Lift Tie0:15Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30	Large Animal Rescue Equipment	
Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30	How to Apply a Rescue Strap, Forward Application	0:15
Trailers and Trailer Operations1:00Raising and Lowering Systems and Operations0:45How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30	How to Apply the Vertical Lift Tie	
How to Apply a Rescue Strap, Rear Drag Application0:15How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30		
How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope0:15How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30	Raising and Lowering Systems and Operations	
How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope0:15How to Set Up a Piggyback Haul System0:15How to Operate a Piggyback Haul System0:15Water Operations0:30	How to Apply a Rescue Strap, Rear Drag Application	0:15
How to Set Up a Piggyback Haul System0:15 How to Operate a Piggyback Haul System0:15 Water Operations0:30	How to Assemble a Set of Tandem Prusik Loops to an Anchor Rope	
How to Operate a Piggyback Haul System	How to Assemble a Set of Parallel Prusik Loops to a Double Anchor Rope	
Water Operations	How to Set Up a Piggyback Haul System	0:15
Course Review and Final Exam		
	Course Review and Final Exam	



	Low Angle Rope Rescue Operational (2007) 24		FSTE
Hours: Designed For:	All fire service personnel		
Description:	Designed to equip the student with the techniques and methods for	using rope we	bbing
Description	hardware friction devices, litters in low angle rescue situations. Are		
	related equipment, anchor systems, safety lines, stretcher lashing ar		
	advantage systems, and single-line and two-line rescue systems.		
Prerequisites:	None		
Certification :	None		
Class Size:	Student/Instructor ratio is 12:1 (48 students maximum with four Prin		
Restrictions:	This course requires a site with adequate materials and equipment t	to deliver the tra	ining
	according to the course outline.		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Low Angle Rope	Rescue Operational Instructor and Student Manual	2007	SFT
	REQUIRED INSTRUCTOR MATERIALS		
Low Angle Rope	Rescue Operational Instructor and Student Manual	2007	SFT
	VENDORS		
FT Stat	e Fire Training Bookstore (916-445-8158)	http	://sft.fire.ca.go
	LOW ANGLE ROPE RESCUE OPERATIONAL COURSE OUT	LINE	
ourse Objectives: 7	To provide the student with	LINE	
Information on re	o provide the student with ppe rescue equipment, rescue knots and hitches, anchor systems, syst		and fall
Information on restraint, belay/sa	o provide the student with ope rescue equipment, rescue knots and hitches, anchor systems, syst fety line systems, load-releasing devices.	tem attachments	and fall
Information on re restraint, belay/sa Methods and tec	o provide the student with ope rescue equipment, rescue knots and hitches, anchor systems, syst fety line systems, load-releasing devices. nniques used to inspect and maintain rescue rope, webbing, and hard	tem attachments	and fall
Information on re restraint, belay/sa Methods and tec Methods and tec	o provide the student with ope rescue equipment, rescue knots and hitches, anchor systems, syst fety line systems, load-releasing devices. nniques used to inspect and maintain rescue rope, webbing, and hard nniques to tie knots and package victims and rescuers.	tem attachments	and fall
Information on re restraint, belay/sa Methods and tec Methods and tec Methods and tec	o provide the student with ope rescue equipment, rescue knots and hitches, anchor systems, syst fety line systems, load-releasing devices. nniques used to inspect and maintain rescue rope, webbing, and hard nniques to tie knots and package victims and rescuers. nniques for using rescue equipment to build lower/raise systems.	tem attachments	and fall
Information on re restraint, belay/sa Methods and tec Methods and tec Information on re	o provide the student with ope rescue equipment, rescue knots and hitches, anchor systems, syst fety line systems, load-releasing devices. nniques used to inspect and maintain rescue rope, webbing, and hard nniques to tie knots and package victims and rescuers. nniques for using rescue equipment to build lower/raise systems. escue scene organization and management.	tem attachments	and fall
Information on re restraint, belay/sa Methods and tec Methods and tec Information on re An opportunity te	o provide the student with ope rescue equipment, rescue knots and hitches, anchor systems, syst fety line systems, load-releasing devices. nniques used to inspect and maintain rescue rope, webbing, and hard nniques to tie knots and package victims and rescuers. nniques for using rescue equipment to build lower/raise systems.	tem attachments dware.	

	optional montation on material and ladder systems aced in for angle reperieded operations	
Со	urse Content	
	Introduction	1:00
	Rope Rescue Equipment	1:00
	Rescue Knots and Hitches	1:00
	Anchor Systems	
	Rescuer and Ambulatory Victim Packaging	1:00
	Types of Rescue Litters and Victim Packaging	
	System Attachments and Fall Restraint	1:00
	Three Main Components of a Low Angle Rope Rescue System	
	Belay/Safety Line Systems	1:00
	Descending and Ascending Techniques	
	Lower/Raise (Mechanical Advantage) Systems	
	Load-releasing Methods	1:00
	Rescue Scene Organization and Management	
	Litter Walkouts (Optional)	1:00
	Ladder Systems (Optional)	
	Evolutions	5:00
	Evolutions (Optional)	5:00



PO Box 944246, Sacramento CA 94244-2460

Course:	Personal Watercraft Rescue Operations (1996)		FSTEP
Hours:	16		
Designed For:	Water rescue personnel		
Description:	•		covered. "In I, perform self-
Prerequisites:	River and Flood Water Rescue		
Certification:	None		
Class Size:	25		
Restrictions:	This course requires a site with adequate materials and equipment according to the course outline.	to deliver the tra	aining
		EDITION	VENIDODC

	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor 	r Guide	1996	SFT
VENDORS			
SFT State Fire Training Bookstore (916-445-8158) http://sft.fire.ca			tp://sft.fire.ca.gov

PERSONAL WATERCRAFT RESCUE OPERATIONS COURSE OUTLINE

- Information on the codes and regulations that impact personal watercraft operations.
- A thorough knowledge of personal watercraft operations.
- A strong working knowledge of personal watercraft operations in both static and dynamic water.
- Information on performing inspections and maintaining personal watercraft.
- An opportunity to apply their knowledge through demonstrations.

Course Content	
Course Content Personal Watercraft Safety Training	
Philosophy of Personal Watercraft Use	
Orientation and Terminology of Personal Watercraft	
Performing Pre-operation Inspections	
Launching Personal Watercraft	
Rescuer Mounts for Personal Watercraft	
Methods for Reading Rivers	
Traveling in Dynamic Water	
Hovering and Ferrying a Personal Watercraft	
Righting a Tipped Personal Watercraft	
Serving a Flooded Personal Watercraft	
Shoring a Personal Watercraft	
Performing a Rope Crossing	
Performing a Victim Pickup with a Rescue Litter	
Performing a Victim Pickoff	
Trailering a personal Watercraft	
Placing a Personal Watercraft Back In-service	
Performing Daily and Weekly Checks on Personal Watercraft	
Course Review and Final Exam	



Course:	Rapid Intervention Crew Tactics (2000)		FSTE
Hours:	16		
Designed For:	All personnel involved in structural fire fighting		
Description:	All departments have policies or guidelines in place requir		
	However, once you have been assigned as the RIC, what c		
	answers by teaching some effective techniques for rescuing	g fire fighters in a variet	ty of situations.
-	Prerequisites: Fire Fighter I or equivalent training		
	Certification: None		
Class Size:	40		
Student/Instructor:	Ratio: 10:1 (Skills Proficiency)	• • • • • • •	
Restrictions:	This course requires a site with adequate materials and equate	uipment to deliver the t	raining
	according to the course outline.	EDUTION	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Supplem 		2002	SFT
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guide 		2000	SFT
 PowerPoint Slide 	s on CD-ROM (Optional)	2000	SFT
	VENDORS		
SFT Sta	te Fire Training Bookstore (916-445-8158)	ht	tp://sft.fire.ca.go
	RAPID INTERVENTION CREW TACTICS COURSE	OUTLINE	
Course Obiectives: T	o provide the student with		
	e fighter injuries and fatalities at structure fires.		
	nd techniques of Rapid Intervention Crews.		
	nd techniques of self-survival.		
	demonstrate and apply fire fighter rescue and self-survival t	echniques.	

Course Content:	
Course Content: Welcome and Course Overview	
Fire Fighter Injuries and Fatalities	
Tactical Considerations of the Rapid Intervention Crew	
Fire Fighter Self-Survival Techniques	
How to Change Your SCBA Profile	0:30
How to Drag a Down Fire Fighter	
How to Drag a Down Fire Fighter Down Stairs	
How to Drag a Down Fire Fighter Up Stairs	
How to Remove SCBA From Down Fire Fighter	
How to Lift a Down Fire Fighter Out a Window	
How to Lower a Down Fire Fighter Down a Ladder	0:30
How to Lift a Down Fire Fighter in a Confined Area	
Indications, Contraindications, and Safety Awareness for the Low-Profile Ladder Escape (Optiona	l) 1:00
How to Set-Up a Safety Belay System for the Low-Profile Ladder Escape (Optional)	
How to Perform a Low-Profile Ladder Escape (Optional)	
How to Tie a Handcuff Knot	0:30
How to Lift a Down Fire Fighter Through Hole in Floor	
Combined Evolutions	



PO Box 944246, Sacramento CA 94244-2460

	Course:	Rescue Boat Operations (1998)		FSTEP
	Hours:	24		
	Designed For:	Water rescue personnel		
	Description:	This course provides the skills needed to operate a rescue boat and perform rescue in river and		
	Prerequisites: Certification:	flood situations. Safety, course philosophy, and terminology are covered. "In water" experiences for students include how to read dynamics flow for safety travel, perform self-rescue and victim- rescue operations, along with executing pre/post-inspections of the PWC. River and Flood Water Rescue None		
	Class Size:	lass Size: 25		
	Restrictions:	This course requires a site with adequate materials and equipment according to the course outline.	to deliver the t	raining
		REQUIRED STUDENT MATERIALS	EDITION	VENDORS
1	Student Manual		1998	SFT
		REOLURED INSTRUCTOR MATERIALS		

	REQUIRED INSTRUCTOR MATERIALS			
 Instructor Guide 			SFT	
	VENDORS			
SFT	State Fire Training Bookstore (916-445-8158)		http://sft.fire.ca.g	

RESCUE BOAT OPERATIONS COURSE OUTLINE

- Information on the codes and regulations that impact rescue boat operations.
- A strong working knowledge of rescue boat operations in both static and dynamic water.
- Information on performing inspections and maintaining rescue boats.
- An opportunity to apply their knowledge through demonstrations.

Course Content	
Rescue Boat Safety Training	
Philosophy of Rescue Boat Use	0:30
Rescue Boat Types, Uses, and Limitation	
Recognized Standard Set-up for an IRB	
Methods of Reading Rivers	
Traveling in Dynamic Water	
Operational Terminology	
IRB Crew Positions	0:30
How To Perform Daily and Weekly Checks	0:30
Boat Care and Maintenance	0:30
Performing a Pre-operation Inspections	
Launching a Rescue Boat	
How to Hover and Ferry a Rescue Boat	
Shoring A Rescue Boat	0:30
How to Trailer A Rescue Boat	
IRB High Speed Turns	
How to Execute a Rescuer Drop-off	
Performing A Victim Pickup	
Performing A Victim Pickoff	
Righting an Overturned IRB	
Paddle Operations	
Rescue Boat Operations During Floods	
Boat Wraps and Pins	



None

COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course:	River and Flood Water Rescue (1996)		FSTEP
Hours:	16		
Designed For:	All fire service personnel		
Description:	•		
Prerequisites:	requisites: None		
Certification:	None		
Class Size:	ass Size: 40		
Student/Instructor:	nt/Instructor: Ratio: 10:1 (Skills Proficiency)		
Restrictions:	This course requires a site with adequate materials and equipmen according to the course outline.	t to deliver the	training
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		

RIVER AND FLOOD WATER RESCUE COURSE OUTLINE

- Basic rescue techniques to water rescue problems.
- Information on the special hazards and problems in swift water rescue.
- Basic skills to make safe moving water rescues.
- Skills in rope handling, rigging, and repelling.

Course Content	
Introduction	0:30
Cold Water Emersion, Hypothermia, and Mammalian Reflex	0:30
White Water Regarding Body Surfing, Boat Handling, and Shallow Water Crossing	1:00
Introduction to Vertical Rescue	
How to Tie Rescue Knots	
Field Exercises	
Water Briefing	0:30
Field Exercises With the Tyrollian Line	
Field Exercises With Water Crossing Techniques	
Waterside Briefing	0:30
Rescue Simulations	



PO Box 944246, Sacramento CA 94244-2460

Courses	Tire Fire Prevention and Suppression (2004)		FSTEP
Hours	6		
Designed For	All fire service personnel		
Description	ption: This course provides information on the growing problem of scrap tire storage throughout California. Topics include: History, chemical compounds, sources of ignition, codes and regulations, ground rubber operations and hazards, pre-incident planning of outdoor tire storage yards, tire fire behavior, and hazardous materials response.		
Prerequisites	Prerequisites: None		
Certification	Certification: None		
Class Sizes	40		
Restrictions	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 	(included in Instructor Media Kit)	2004	SFT
	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS
 Media Kit: Instr Notes 	uctor Guide, Student Manual, Multimedia Presentation, and Program	2004	SFT
	VENDORS		
SFT St	ate Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov
	TIRE FIRE PREVENTION AND SUPPRESSION COURSE OUT	LINE	

- Information on the background and history of the scrap tire industry.
- Information on chemical compounds used in tire manufacturing.
- Information on traditional sources of ignition.
- Information on the current codes and regulations.
- Information on ground rubber operations and hazards.
- Pre-incident planning of outdoor tire storage yards.
- Information on tire fire behavior.
- Information on hazardous materials response.

Course Content	
Introduction: Defining the Problem	
Tire History	
Tire Markets	
Tire Storage	
Sources of Ignition	
Codes and Regulations	
Ground Rubber	
Preplanning	
Fire Behavior	
Hazardous Materials Response	



PO Box 944246, Sacramento CA 94244-2460

Course:	Trench Rescue		FSTEP
Hours:	16		
Designed For:	All fire service personnel		
Description:	This course is designed to train fire service personnel in hands-on application of the techniques necessary to safely affect a rescue from an excavation or trenching cave-in. Topics include: Critical considerations while responding to trenching emergencies, evaluation of cave-in scenes, basic life support procedures and temporary protection for victims, specialized tool usage, shoring techniques, and below grade rescue safety procedures.		
Prerequisites:	None		
Certification:	None		
Class Size:	40		
Student/Instructor:	pr: Ratio: 10:1 (Skills Proficiency)		
Restrictions:	This course requires a site with adequate materials and equipment according to the course outline.	to deliver the ti	aining
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
None			
	REQUIRED INSTRUCTOR MATERIALS		
= Nama			

None

TRENCH RESCUE COURSE OUTLINE

Course Objectives: To provide the student with...

- Information on the common causes for trench collapse.
- Information on the personal safety equipment used for trench rescues.
- Techniques for using scene safety equipment.
- The procedures for placing edge protection to make the lip of the trench safe.
- The procedures for sheeting and shoring.
- Different methods for removing victims from a trench.
- Techniques for safely removing tools and equipment from a trench.
- An opportunity to demonstrate and apply trench rescue techniques.

- Introduction The Law Confined Space Regulations Soil Analysis Types of Trenches and Collapse Patterns Emergency Rescue Guide
- Making the Trench Safe



PO Box 944246, Sacramento CA 94244-2460

		HAZ	MAT COURSES
Course:	Hazardous Materials First Responder Awareness Level (1996)		FSTEP
Hours:	8		
Designed For:	Fire prevention personnel, fire inspectors, and fire department supp	ort staff	
Description:	Hazardous Materials notification and reporting requirements for Fire Department personnel who may witness or discover a Hazardous Materials Leak, spill, or discharge. Meets the requirements of CFR 29 1910.120 and CCR Title 8.		
Prerequisites:	None		
Certification:	None		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		
 None 			

HAZARDOUS MATERIALS FIRST RESPONDER AWARENESS LEVEL COURSE OUTLINE

- Information on hazardous materials relevant to the risks and negative outcomes hazardous materials events/incidents present.
- Methods and procedures to identify a hazardous materials event/incident.
- With methods and procedures to isolate a hazardous materials event/incident and make proper modifications to mitigate an event/incident.
- Information on safety and hazard assessment techniques when dealing with a hazardous materials event/incident.
- A tabletop exercise to apply the information provided in this course.

Course Content	8:00
Course Orientation and Administration	
Introduction to Hazardous Materials at the Awareness Level	
Hazardous Materials Recognition	
Safety, Isolation, and Notifications	
Basic Command, IDHA, and Action Plans	
Tabletop Exercise	
Course Review and Final Exam	



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Cours			FSTEP	
Hou				
Designed Fo	r: Fire department personnel who may respond to releases or poter	ntial releases of ha	azardous	
Descriptio	 materials as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. Defensive tactics to contain the release from a safe distance, keep it from spreading, and prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8. 			
Prerequisite				
Certificatio				
Class Siz	e: 40	40		
Restrictior	s: None			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Manu 	al	1994	CSTI	
	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS	
 Instructor Gui 	de	1994	CSTI	
 Student Manu 	al	1994	CSTI	
	VENDORS			
CSTI	California Specialized Training Institute (800-549-3535)	CSTI	info@oes.ca.gov	

HAZARDOUS MATERIALS FIRST RESPONDER OPERATIONAL LEVEL COURSE OUTLINE

course objectives. To provide the student within	
 Information on recognition of hazardous materials incidents, safety precautions, making proper notifications, and 	
legal aspects.	
 Information on scene management and the utilization of IDHA and action plans. 	
 Methods and procedures on the proper use of hazardous materials protective equipment, containment, protective 	
actions, decon, disposal and documentation.	
 Information on preplanning for hazardous materials incidents. 	
 An exercise that uses the information, methods, and procedures contained in this course. 	
Course Content)0
Course Orientation and Administration1:3	
Introduction to Hazardous Materials at the Operational Level1:0)0
Hazardous Materials Recognition and Safety1:0	
Safety, Isolation, and Notifications	
Command/Introduction to Scene Management	
IDHA and Action Plans	
Protective Equipment and First Responder Limits1:0)0
Containment and Protective Actions	
Decon Disposal and Documentation	
Agency Coordination	
Pre-Event and Event-Specific Planning1:0	
Toxicology	
The Safe and Competent Hazardous Materials Process1:0	
First Responder Operational Exercise	
Hazardous Materials Legal Aspects and the Media1:0)0
Putting It All Together	
Course Review and Final Exam	



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Cour	se: Hazardous Materials First Responder Operational, Decontamina	ation (1993)	FSTEP	
Ηοι	irs: 8			
Designed F	or: Hazardous material emergency response personnel			
Descripti				
Prerequisit	tes: OSFM recognized/approved Hazardous Materials First Responder Operational Level			
Certificati	ion: None			
Class Si	ze: 40	40		
Restrictio	ns: None			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Man 	ual	1993	CSTI	
	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS	
 Instructor Gu 	ıide	1993	CSTI	
 Student Man 	ual	1993	CSTI	
	VENDORS			
CSTI	California Specialized Training Institute (800-549-3535)	CSTI	info@oes.ca.gov	

HAZARDOUS MATERIALS FIRST RESPONDER OPERATIONAL, DECONTAMINATION COURSE OUTLINE

- Course Objectives: To provide the student with...
- Information on the processes used in decontamination.
- Skills to safely limit the spread of contamination.

Course Content
Course Overview0:1
Introduction to Decontamination0:4
Decontamination Leader0:30
Contamination Reduction Corridor0:30
Special Decontamination Procedures0:30
Personal Protective Equipment0:4
Medical Monitoring of the Decon Team0:1.
EMS Transportation of Decontaminated Patients0:30
Medical Monitoring Exercise
Level B Exercise
Contamination Reduction Corridor Exercise0:4
Level a Decontamination Exercise0:30
Decontamination of Contaminated Victims Exercise0:1
Decontamination of the Decon Team Exercise0:1
Course Review and Final Exam1:0



	ICS COUR
Course:	I-200: Basic ICS (2006) FST
Hours	12-16
Designed For:	First line supervisors, single resource bosses, lead dispatchers, field supervisors, company office
	and entry level positions (trainees) on incident management teams
Description:	This course introduces students to the principles of the Incident Command System (ICS) associa
	with incident-related performance. Topics include leadership and management, delegation of
	authority and management by objectives, functional areas and positions, briefings, organization
	flexibility, transitions and transfers.
Prerequisites:	None
Certification:	None
Class Size:	40
Restrictions:	None
Course:	I-300: Intermediate ICS (2007) FST
Hours:	18-24
Designed For:	Type 3 Incident Management Team (IMT) candidates, incident middle management (Unit Leade
	Division/Group Supervisors, and Strike Team Leaders), elected officials, line officers, lead
	dispatchers, Multi-agency Coordination (MAC) members, director heads (public works director,
	fire chief, sheriff), emergency managers, agency representatives
Description:	This course provides description and detail of the Incident Command System (ICS) organization
	and operations in supervisory roles on expanding or Type 3 incidents. Topics include: ICS
	fundamentals review, incident/event assessment and agency guidance in establishing incident
	objectives, Unified Command, incident resource management, planning process, demobilization
	transfer of command, and close out.
Prerequisites:	I-200
Certification:	None
Class Size:	40
Restrictions:	None
Course:	I-400: Advanced ICS (2006) FST
Hours:	
Designed For:	Senior personnel expected to perform in a management capacity in an area command/complex
	incident environment
Description:	This course directs the student towards an operational understanding of large single-agency and
	complex multi-agency/multi-jurisdictional incident responses. Topics include fundamentals revi
	for command and general staff, major and/or complex incident/event management, area
Duono mulatta	command, and multi-agency coordination.
Prerequisites:	I-300
Certification: Class Size:	None
Class Size: Restrictions:	40 None

	VENDOR	
NWCG National Wildlife	Coordinating Group (208-387-5119)	www.nwcg.gov



PO Box 944246, Sacramento CA 94244-2460

Course:	S-130: Fire Fighter Training (2003) FST
Hours	30-35½
Designed For:	Entry-level firefighters.
Description:	This course is designed to provide entry-level fire fighters skills. Many of the units are set up so
	they can be taught in either the classroom or the field; field time is encouraged. A version of L- 180, Human Factors on the Fireline, has been included as part of this course.
Prerequisites:	S-190
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-131: Fire Fighter Type 1 Training (2004) FST
Hours:	8
Designed For:	Fire Fighter Type 1 (FFT1)
Description:	This course meets the training needs of the Fire Fighter Type 1 (FFT1) and is interactive in natur
	Topics include fireline reference materials, communications, and tactical decision-making.
Prerequisites:	Qualified as a Fire Fighter Type 2 (FFT2)
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-190: Introduction to Wildland Fire Behavior (2006) FST
Hours	6-8
Designed For:	Entry-level fire fighters
Description:	This course provides instruction in the primary factors affecting the start and spread of wildfire a
	recognition of potentially hazardous situations. S-190 is typically taught in conjunction with or
	prior to Basic Fire Fighter Training, S-130. It is designed to meet the fire behavior training needs a Fire Fighter Type 2 (FFT2) on an incident as outlined in the PMS 310-1, Wildland Fire
	Qualification System Guide and the position task book developed for the position.
Prerequisites:	None
i i ci cquisitesi	
Certification: Class Size:	None 40
Certification :	None
Certification: Class Size:	None 40 None
Certification: Class Size: Restrictions:	None 40
Certification: Class Size: Restrictions: Course:	None 40 None S-200: Initial Attack Incident Commander (2007) FST
Certification: Class Size: Restrictions: Course: Hours:	None 40 None 5-200: Initial Attack Incident Commander (2007) FST 16
Certification: Class Size: Restrictions: Course: Hours: Designed For:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a
Certification: Class Size: Restrictions: Course: Hours: Designed For:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident.
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations.
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification: Class Size:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None
Certification: Class Size: Restrictions: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None 5-203: Introduction to Incident Information (2008)
Certification: Class Size: Restrictions: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions: Course: Hours:	None40 NoneS-200: Initial Attack Incident Commander (2007)FST16Personnel desiring to be qualified as an (ICT4)This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None40 None5-203: Introduction to Incident Information (2008)FST 30
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions: Course: Hours: Designed For:	None 40 None S-200: Initial Attack Incident Commander (2007) 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None 5-203: Introduction to Incident Information (2008) FST 30 Personnel desiring to be qualified as Public Information Officer (PIOF)
Certification: Class Size: Restrictions: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions: Course: Hours:	None 40 None S-200: Initial Attack Incident Commander (2007) 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None 5-203: Introduction to Incident Information (2008) FST 30 Personnel desiring to be qualified as Public Information Officer (PIOF) Receive the skills and knowledge needed to serve as a public information officer. Topics included to serve as a public information officer.
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions: Course: Hours: Designed For:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None 40 Personnel desiring to be qualified as Public Information (2008) FST 30 Personnel desiring to be qualified as Public Information Officer (PIOF) Receive the skills and knowledge needed to serve as a public information officer. Topics includ establishing/maintaining an incident information operation, communicating with internal/extern
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions: Hours: Designed For: Designed For: Designed For: Description:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None 40 Personnel desiring to be qualified as Public Information Officer (PIOF) Receive the skills and knowledge needed to serve as a public information officer. Topics includ establishing/maintaining an incident information operation, communicating with internal/externa audiences, working with the media, handling special situations, and long-term planning/strategy
Certification: Class Size: Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions: Course: Hours: Designed For:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None 40 Personnel desiring to be qualified as Public Information (2008) FST 30 Personnel desiring to be qualified as Public Information Officer (PIOF) Receive the skills and knowledge needed to serve as a public information officer. Topics includ establishing/maintaining an incident information operation, communicating with internal/extern
Certification: Class Size: Restrictions: Designed For: Description: Prerequisites: Certification: Class Size: Restrictions: Hours: Designed For: Designed For: Designed For: Description:	None 40 None S-200: Initial Attack Incident Commander (2007) FST 16 Personnel desiring to be qualified as an (ICT4) This course is designed to meet the training needs of the Incident Commander Type 4. The six units cover: foundation skills, intelligence gathering and documentation, size-up, developing a plan of action, post-fire activities, evaluating incident objectives, and managing the incident. Evaluation of the student is by unit tests and performance based evaluations. Qualified as a Single Resource Boss None 40 None 5-203: Introduction to Incident Information (2008) FST 30 Personnel desiring to be qualified as Public Information Officer (PIOF) Receive the skills and knowledge needed to serve as a public information officer. Topics include establishing/maintaining an incident information operation, communicating with internal/extern audiences, working with the media, handling special situations, and long-term planning/strategy None

VENDOR National Wildlife Coordinating Group (208-387-5119)

www.nwcg.gov



Hours:	
	24-36
Designed For:	Individuals desiring to be qualified as Fire Fighter Type 1 (FFT1), Incident Commander Type 5
	(ICT5) or Felling Boss (FELB)
Description:	This course introduces the function, maintenance and use of internal combustion engine powere
	chain saws, and their tactical wildland fire application. Field exercises support entry-level trainin
	for fire fighters with little or no previous experience in operating a chain saw, providing hands-o
Der se tates	cutting experience in surroundings similar to fireline situations.
Prerequisites:	Qualified as a Fire Fighter Type 2 (FFT2)
Certification:	None
Class Size:	Ratio: 10:1 (Skills Proficiency)
Restrictions:	This course requires a site with adequate materials and equipment to deliver the training
	according to the course outline.
Course:	S-215: Fire Operations in the Wildland/Urban Interface (2003) FSTE
Hours:	28-32
Designed For:	Wildland Fire Agencies: Required for Initial Attack Incident Commander Type 4 (ICT4) and Strik
	Team Leader (tractor/plow, dozer, engine, or crew).
	Structural Fire Departments: Engine operators, chief officers, and company officers responsible
Deschafter	for structure protection in suburban/urban interface areas that may be threatened by wildland fire
Description:	Designed to assist structure and wildland fire fighters who will be making tactical decisions whe
	confronting wildland fire that threatens life, property, and improvements, in the wildland/urban
	interface. Topics include: interface awareness, size-up, initial strategy and incident action plan,
	structure triage, structure protection tactics, incident action plan assessment and update, follow-u and public relations, and fire fighter safety in the interface. If the optional exercises at the end of
	the tactics unit are used or a field exercise is included additional course time is needed. Instructor
	are encouraged to extend the course to 32 hours and add a field exercise covering size-up,
	structure triage, tactics, and any other local area training as appropriate.
Prerequisites:	Wildland Fire Agencies: Qualified as a Fire Fighter Type 1 (FFT1)
rerequisitest	Structural Fire Departments: I-100, L-180, S-130, S-131, S-190
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-230: Crew Boss – Single Resource (2004) FSTE
Hours:	24
Designed For:	Personnel desiring to be qualified as an Engine Boss (ENGB)
Description:	Training for the single resource boss position from initial dispatch through demobilization to the
-	home unit. Topics include operational leadership, preparation and mobilization, assignment
	preparation, risk management, entrapment avoidance, safety and tactics, offline duties,
	demobilization, and post incident responsibilities.
Prerequisites:	S-290 and qualified as a Fire Fighter Type 1 (FFT1)
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-231: Engine Boss (2004) FSTE
Hours:	12-16
Designed For:	Personnel desiring to be qualified as an Engine Boss (ENGB)
Description:	Designed to produce student proficiency in the performance of the duties associated with ENGB
	Topics include engine and crew capabilities and limitations, information sources, fire size-up
	considerations, tactics, and wildland/urban interface.
D	S-230 and qualified as a Fire Fighter Type 1 (FFT1)
Prerequisites:	None
Certification:	
Certification: Class Size:	40
Certification:	40 None
Certification: Class Size:	



Course:	S-234 Ignition Operations (2009) FSTEP
Hours	16
Designed For:	Personnel desiring to be qualified as Firing Boss (FIRB)
Description:	This course introduces the roles and responsibilities of a Firing Boss (FIRB), common firing
Description.	devices, and general firing operations and techniques. Although comprehensive in nature, the
	coursework is not a substitute for the dynamic fire environment. The course provides students
	with important information concerning general tasks required to be successful. Any opportunity to
	show students a small-prescribed burn or demonstrate how devices operate in the field will
	promote transferring these new skills to the job. Due to the wide variety and capabilities of
	sponsors presenting this course, the field exercise portion of the class is not defined. Therefore,
	the cadre and sponsoring unit are responsible for planning field exercises and demonstrations in
	accordance with their capabilities.
Prerequisites:	S-290
Certification :	None
Class Size:	Ratio: 10:1 (Skills Proficiency)
Restrictions:	This course requires a site with adequate materials and equipment to deliver the training
	according to the course outline.
Course:	S-244: Field Observer (2007) FSTEP
Hours:	20
Designed For:	Personnel desiring to be qualified as a Field Observer (FOBS) and/or Fire Effects Monitor (FEMO)
Description:	This course provides the student with the skills necessary to perform as a field observer (FOBS)
	and/or a fire effects monitor (FEMO). Topics include roles and responsibilities of the FOBS and
	FEMO; how to make observations and document those observations; how to produce hand drawn
	and GPS field maps; and how to navigate using a compass and GPS. The navigation unit has 4½ hours of field exercises and the final field exercise is 8 hours.
Prerequisites:	Successful completion of the precourse work
rierequisites:	Ability to use a GPS receiver
	S-290
	FOBS: Qualified as a Single Resource Boss
	FEMO: Qualified as a Fire Fighter Type 2 (FFT2)
Certification :	None
Class Size:	40
Restrictions:	None
Course:	S-245: Display Processor (2007) FSTEP
Hours:	8
Designed For:	Personnel desiring to be qualified as a Display Processor (DPRO)
Description:	This course provides students with the skills necessary to perform as a Display Processor (DPRO).
	Topics include general roles and responsibilities and how to assist the situation unit leader with
	producing incident maps, inputs for the Incident Status Summary (ICS-209) and other incident
	products. The final exam is 3 hours.
Prerequisites:	Successful completion of the precourse work
Certification:	None
Class Size:	40
Restrictions:	None

	VENDOR	
NWCG	National Wildlife Coordinating Group (208-387-5119)	www.nwcg.gov



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

TKAINING	
Course:	S-270: Basic Air Operations (2003) FSTEP
Hours:	16
Designed For:	Single Resource Boss, Incident Commander Type 4 (ICT4), and Support Dispatcher (EDSD)
Description:	This course covers aircraft types and capabilities, aviation management and safety for flying in and
	working with agency aircraft, tactical and logistical uses of aircraft, and requirements for
	helicopter take-off and landing areas. Note: the regulations, procedures, and policies addressed in
	this course are primarily those governing federal agency and ICS operations. State, county, or
	other political subdivisions using this course will need to consult their agency having jurisdiction
	with respect to regulations, procedures, and policies.
Dronomisitos	
Prerequisites:	None
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-290: Intermediate Wildland Fire Behavior (2007) FSTEP
Hours:	32
Designed For:	Personnel desiring to be qualified as any Single Resource Boss or Fire Effects Monitor (FEMO)
Description:	This is a classroom-based skills course designed to prepare the prospective fireline supervisor to
	undertake safe and effective fire management operations. It is the second course in a series that
	collectively serves to develop fire behavior prediction knowledge and skills. Fire environment
	differences are discussed as necessary; instructor should stress local conditions.
Prerequisites:	S-190
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-300: Extended Attack Incident Commander (2008) FSTEP
Hours:	16
Designed For:	Personnel desiring to be qualified as an Incident Commander Type 3 (ICT3)
Description:	The focus is on leadership and command as they relate to the ICT3 position and presented in
	participative lecture format with multiple tactical decision games for students to practice new
	knowledge. The seven instructional units cover: foundation skills, situational awareness,
	command and control, managing the incident, transitional activities, post-fire activities, and final
	simulation. There is also an optional staff ride activity (Unit 8) if instructors choose to include it.
Prerequisites:	Successful completion of the precourse work
	Qualified as an Incident Commander Type 4 (ICT4) and Task Force Leader (TFLD)
	or
	Qualified as an Incident Commander Type 4 (ICT4), Strike Team Leader (TFLD), and any two
	Single Resource Boss positions – one must be Crew (CRWB) or Engine (ENGB)
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-330: Task Force/Strike Team Leader (2005) FSTEP
Hours:	24
Designed For:	Personnel desiring to be qualified as a Task Force Leader (TFLD) or any Strike Team Leader (STPL,
	STDZ, STEN, or STCR)
Description:	Designed to meet the training requirements outlined in the Wildland Fire Qualification System
	Guide and the Position Task Books (PTB) developed for the positions of Task Force Leader and
	Strike Team Leader and specific to wildland fire suppression. If students are expected to perform
	in some other risk area, exercises and examples appropriate to the expected risk should be added.
Prerequisites:	Successful completion of the precourse work
ei equisitesi	Qualified as any Single Resource Boss
Certification:	None
Class Size:	40
Restrictions:	None
restrictions:	
	VENIDOP

NWCG

VENDOR National Wildlife Coordinating Group (208-387-5119)

www.nwcg.gov



Course:	S-336: Tactical Decision Making in Wildland Fire (2004) FSTEF
Hours:	24-32
Designed For:	Experienced Single Resource Bosses and Initial Attack Incident Commanders
Description:	Designed to meet training requirements in the Operations Section of the ICS and is specific to wildland fire suppression. This course prepares experienced Single Resource Bosses and Initial Attack Incident Commanders in the tactics necessary at the Strike Team/Task Force Leader level. I is also valuable for Operations Supervisors qualified at higher management levels who have not
	received training in wildfire suppression tactics.
Prerequisites:	Qualified as a Single Resource Boss or Initial Attack Incident Commander Type 4 (ICT4)
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-339: Division/Group Supervisor (2006) FSTER
Hours:	20
Designed For:	Personnel desiring to be qualified as a Division/Group Supervisor (DIVS)
Description: Prerequisites:	Prepares students to perform in the role of Division/Group Supervisor and provides instruction in support of the specific tasks of the DIVS. Topics include division/group management, organizational interaction, division operations, all-hazard operations, and tactical decision games (optional). There is a final examination in this course. I-200, I-300
-	Qualified as a Task Force Leader (TFLD) or Incident Commander Type 3 (ICT3) or Incident Commander Type 4 (ICT4) and in any two Strike Team Leader positions – one must be STCR or STEN
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-346: Situation Unit Leader (2008) FSTER
Hours:	
Designed For: Description:	Personnel desiring to be qualified as Situation Unit Leader (SITL). The course starts with how to activate, setup, organize, manage, and demobilize a situation unit. then addresses the products (maps, ICS-209, and other reports) the unit produces, as well as the
	technology needed to produce the products.
Prerequisites:	Successful completion of the precourse work
	Qualified as any Strike Team Leader or Incident Commander Type 4 (ICT4)
Certification:	None
Class Size:	40
Restrictions:	40 None
Restrictions: Course:	40 None S-349: Resources Unit Leader/Demobilization Unit Leader (2008) FSTE
Restrictions: Course: Hours:	40 None S-349: Resources Unit Leader/Demobilization Unit Leader (2008) 28-32
Restrictions: Course:	40 NoneS-349: Resources Unit Leader/Demobilization Unit Leader (2008)S-32 Personnel desiring to be qualified as a Resources Unit Leader (RESL) and/or Demobilization Unit
Restrictions: Course: Hours: Designed For:	40 None S-349: Resources Unit Leader/Demobilization Unit Leader (2008) 28-32 Personnel desiring to be qualified as a Resources Unit Leader (RESL) and/or Demobilization Unit Leader (DMOB)
Restrictions: Course: Hours:	40 None S-349: Resources Unit Leader/Demobilization Unit Leader (2008) FSTE 28-32 Personnel desiring to be qualified as a Resources Unit Leader (RESL) and/or Demobilization Unit Leader (DMOB) Training begins with a discussion on unit activation and management. Topics include RESL responsibilities related to resource status systems, planning process, and resource products/output and DMOB responsibilities for developing and implementing the demobilization plan Successful completion of the precourse work and test Basic knowledge of current automated resource status system, such as I-Suite
Restrictions: Course: Hours: Designed For: Description: Prerequisites:	40 None S-349: Resources Unit Leader/Demobilization Unit Leader (2008) FSTE 28-32 Personnel desiring to be qualified as a Resources Unit Leader (RESL) and/or Demobilization Unit Leader (DMOB) Training begins with a discussion on unit activation and management. Topics include RESL responsibilities related to resource status systems, planning process, and resource products/output and DMOB responsibilities for developing and implementing the demobilization plan Successful completion of the precourse work and test Basic knowledge of current automated resource status system, such as I-Suite Qualified as a Status/Check-in Recorder (SCKN)
Restrictions: Course: Hours: Designed For: Description: Prerequisites: Certification:	40 None 5-349: Resources Unit Leader/Demobilization Unit Leader (2008) FSTE 28-32 Personnel desiring to be qualified as a Resources Unit Leader (RESL) and/or Demobilization Unit Leader (DMOB) Training begins with a discussion on unit activation and management. Topics include RESL responsibilities related to resource status systems, planning process, and resource products/output and DMOB responsibilities for developing and implementing the demobilization plan Successful completion of the precourse work and test Basic knowledge of current automated resource status system, such as I-Suite Qualified as a Status/Check-in Recorder (SCKN) None
Restrictions: Course: Hours: Designed For: Description: Prerequisites:	40 None 5-349: Resources Unit Leader/Demobilization Unit Leader (2008) FSTER 28-32 Personnel desiring to be qualified as a Resources Unit Leader (RESL) and/or Demobilization Unit Leader (DMOB) Training begins with a discussion on unit activation and management. Topics include RESL responsibilities related to resource status systems, planning process, and resource products/output and DMOB responsibilities for developing and implementing the demobilization plan Successful completion of the precourse work and test Basic knowledge of current automated resource status system, such as I-Suite Qualified as a Status/Check-in Recorder (SCKN)

	VENDOR	
NWCG	National Wildlife Coordinating Group (208-387-5119)	www.nwcg.gov



Course:	S-355: Ground Support Unit Leader (2000)	FSTEP
Hours:	16	
Designed For:	Personnel desiring to be qualified as a Ground Support Unit Leader (GSUL)	
Description:	Managing the transportation plan, maintenance, and related services at an incident. Topics include gathering assignment information; organizing, staffing, and laying out the unit; fiel inspection of equipment; operation and coordination with other units, and demobilization	d
Prerequisites:	Qualified as an Equipment Manager (EQPM)	
Certification:	None	
Class Size:	40	
Restrictions:	None	
Course:	S-356: Supply Unit Leader (2001)	FSTEP
Hours	16	
Designed For:	Personnel desiring to be qualified as a Supply Unit Leader (SPUL)	
Description:	Training on the duties of a Supply Unit Leader and managing the incident supply unit.	
Prerequisites:	Qualified as an Ordering Manager (ORDM)	
	Qualified as a Receiving/Distribution Manager (RCDM)	
Certification:	None	
Class Size:	40	
Restrictions:	None	
Course:	S-358: Communications Unit Leader (2008)	FSTEP
Hours	24	
Designed For:	Personnel desiring to be qualified as a Communications Unit Leader (COML)	
Description:	This course is designed to provide skills and knowledge needed to perform in the role of Communications Unit Leader. Topics include mobilization, establishing the communication communications system design and ordering, communications system installation and maintenance, communications equipment assignment and accountability, incident communications center, internal and external coordination, demobilization, and current communications issues and technology.	ons unit,
Prerequisites:	Qualified as an Incident Communications Technician (COMT)	
	Qualified as an Incident Communications Center Manager (INCM)	
Certification:	None	
Class Size:	40	
Restrictions:	None	
Course:	S-359: Medical Unit Leader (2000)	FSTEP
Hours	20	
Designed For:	Personnel desiring to be qualified as a Medical Unit Leader (MEDL)	
Description :	This course is designed to provide the skills and knowledge needed to perform in the role Medical Unit Leader. Topics include gathering information, organizing the medical unit, supervising the unit, evaluation, documentation, and demobilization.	of
Prerequisites:	Prior or current certification as an Emergency Medical Technician or equivalent	
Certification:	None	
Class Size:	40	
Restrictions:	None	

	VENDOR	
NWCG	National Wildlife Coordinating Group (208-387-5119)	www.nwcg.gov



COURSE INFORMATION AND REQUIRED MATERIALS

Course:	S-360: Finance/Administration Unit Leader (2001)	FSTE
Hours:	32 Demonstrated desiring to be qualified as a Dragonara of (DDOC). Cost (COCT). Time (TIME) a	
Designed For:	Personnel desiring to be qualified as a Procurement (PROC), Cost (COST), Time (TIME), a Compensation/Claims (COMP) Unit Leader	and/or
Description:	Designed to provide the prerequisite knowledge and skills necessary to perform the tasks Finance/Administration Unit Leader.	of
Prerequisites:	Qualified as Personnel Time Recorder (PTRC) for Time Unit Leader (TIME	
	Qualified as Equipment Time Recorder (EQTR) and meet agency procurement authority	
	requirements for procurement unit leader (PROC)	
	Qualified as Compensation-For-Injury Specialist (INJR) and Claims Specialist (CLMS) for	
	Compensation/Claims Unit Leader (COMP) Have agency related cost estimation and analysis experience for Cost Unit Leader (COST	``
Certification:	None)
Class Size:	40	
Restrictions:	None	
Course:	S-390: Introduction to Wildland Fire Behavior Calculations (2006)	FSTE
Hours:	32	
Designed For:	Personnel desiring to become qualified as Division/Group Supervisor (DIVS), Prescribed	Fire Bu
	Boss Type 2 (RXB2), Incident Commander Type 3 (ICT3), or in a position requiring this k	
Description:	Designed to introduce fire behavior calculations by manual methods, using nomograms a	
	Fire Behavior Handbook Appendix B. the student gains an understanding of the determin	
	fire behavior though studying inputs (weather, slope, fuels, and fuel moisture). The stude learns how to interpret fire behavior outputs, documentation processes, and fire behavior	
	components.	briefin
Prerequisites:	S-290 and qualified as a Single Resource Boss	
Certification:	None	
Class Size:	40	
Restrictions:	None	
Course:	S-400: Incident Commander (2002)	FSTE
Hours:	24	
Designed For:	Personnel desiring to be qualified as an Incident Commander Type 2 (ICT2)	
Description:	Topics include team administration, communication, information/intelligence processing	
	administrator and IC responsibilities, transfer of command, and demobilization. The cour provides exercises to assist the student in acquiring the knowledge to learn these skills. A	
	optional "lessons learned" unit allows the addition of geographic area specific informatio	
	course time frame must be increased accordingly.	,
Prerequisites:	Qualified as an Incident Commander Type 3 (ICT3)	
	Qualified as one of the General Staff Section Chiefs at the Type 2 level	
Certification:	None	
Class Size:	40	
Restrictions:	None	FOTO
Course:	S-403: Information Officer (2001)	FSTE
Hours: Designed For:	28-32 Personnel desiring to be qualified as Public Information Officer Type 2 (PIO2)	
Description:	This course meets the training requirements for a Public Information Officer Type 2. Topi	ics
	include information organization and assignment, developing a communications strategy	
	information operations, creating a safe environment, effective media relations, incident w	vithin ar
	incident, community relations analysis, documentation, demobilization, and transitioning	
	Students must pass a final exam.	
	•	
Prerequisites:	S-190	
Certification:	S-190 None	
Certification: Class Size:	S-190 None 40	
Certification:	S-190 None	



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course:	S-404: Safety Officer (2002) FSTEP
Hours	24
Designed For:	Personnel desiring to be qualified as a Safety Officer
Description:	Designed to meet the training needs of the Safety Officer position in the incident command
	system. Topics include safety officer effectiveness, analysis techniques, safety messages, briefings
	and reports, and high hazard operations.
Prerequisites:	None
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-420: Command and General Staff (2002) FSTEP
Hours:	36
Designed For:	Personnel desiring to be qualified as an Incident Commander Type 2 (ICT2) or Command Or
	General Staff positions
Description:	Designed to prepare the student to function effectively in the position of a Type 2 Incident
	Commander, Command, or General Staff. The focus is on the application of previously acquired
	knowledge and skills. Students will participate in two types of groups (teams and similar position)
	during exercises that include a simulation of the mobilization, management, and demobilization
	phases of a rapidly accelerating Type 2 wildfire that has potential to become a Type 1 incident.
Prerequisites:	None required
	Suggested completion of all prerequisite experience and course work to be qualified as an
	Incident Commander Type 2 (ICT2) or any Command/General Staff position
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-430: Operations Section Chief (2006) FSTEP
Hours	24
Designed For:	Personnel desiring to be qualified as an Operations Section Chief Type 2 (OSC2)
Description:	Designed to meet the training needs of the Operations Section Chief Type 2. This course is
	interactive in nature and contains several exercises designed to facilitate group and classroom
.	discussion.
Prerequisites:	Qualified as a Division/Group Supervisor (DIVS)
Certification:	None
Class Size:	40
Restrictions:	None
Course:	S-440: Planning Section Chief (2001) FSTEF
Hours:	S-440: Planning Section Chief (2001) FSTEP 20
Hours: Designed For:	S-440: Planning Section Chief (2001)FSTEF20Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2)
Hours:	S-440: Planning Section Chief (2001)FSTEF20Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2)Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics
Hours: Designed For:	S-440: Planning Section Chief (2001)FSTEF20Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2)Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topicsinclude information gathering, strategies, meetings and briefings, incident action plans (IAP),
Hours: Designed For:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In
Hours: Designed For:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information
Hours: Designed For:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Students must pass the unit tests and the final exercise to
Hours: Designed For: Description:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Students must pass the unit tests and the final exercise to successfully complete the course.
Hours: Designed For:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Students must pass the unit tests and the final exercise to successfully complete the course. Successful completion of the precourse work
Hours: Designed For: Description:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Students must pass the unit tests and the final exercise to successfully complete the course. Successful completion of the precourse work Qualified as a Situation Unit Leader (SITL)
Hours: Designed For: Description: Prerequisites:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Students must pass the unit tests and the final exercise to successfully complete the course. Successful completion of the precourse work Qualified as a Situation Unit Leader (SITL) Qualified as a Resources Unit Leader (RESL)
Hours: Designed For: Description: Prerequisites: Certification:	S-440: Planning Section Chief (2001) Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Students must pass the unit tests and the final exercise to successfully complete the course. Successful completion of the precourse work Qualified as a Situation Unit Leader (SITL) Qualified as a Resources Unit Leader (RESL) None
Hours: Designed For: Description: Prerequisites:	S-440: Planning Section Chief (2001) 20 Personnel desiring to be qualified as a Planning Section Chief Type 2 (PSC2) Designed to meet a portion of the training needs of the Planning Section Chief Type 2. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Students must pass the unit tests and the final exercise to successfully complete the course. Successful completion of the precourse work Qualified as a Situation Unit Leader (SITL) Qualified as a Resources Unit Leader (RESL)

VENDOR		
NWCG	National Wildlife Coordinating Group (208-387-5119)	www.nwcg.gov



-

COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course:	S-445: Incident Training Specialist (2009) FSTEP
Hours: Designed For:	14-18 Personnel desiring to be qualified as Training Specialist (TNSP) and should be based on technical
Designed For	competence in the ICS, availability to participate on incidents, and displayed interest in improving training
Description:	Designated to train personnel to perform the duties of a Training Specialist. Duties include coordinating incident training opportunities and activities, ensuring the quality of training assignments, and completing documentation of the incident training.
Prerequisites:	None
Certification:	None
Class Size: Restrictions:	40 None
Course:	S-450: Logistics Section Chief (2002) FSTEP
Hours:	16
Designed For:	Personnel desiring to be qualified as a Logistics Section Chief Type 2 (LSC2)
Description:	Designed to meet the national core needs of the Logistics Section Chief Type 2. Topics include
	arriving properly an incident, gathering information to access the assignment, beginning initial planning activities, determining that facilities, services, and materials are provided for the incident,
	planning, staffing, and managing the Logistics Section, coordinating with other sections, and
- • •	implementing the demobilization plan.
Prerequisites:	Qualified as a Facilities Unit Leader (FACL) Qualified as a Ground Support Unit Leader (GSUL)
	or
	Qualified as a Facilities Unit Leader (FACL)
	Qualified as a Supply Unit Leader (SUPL)
Certification: Class Size:	None 40
Restrictions:	None
Course:	S-460: Finance/Administration Section Chief (2001) FSTEP
Hours:	24
Designed For: Description:	Personnel desiring to be qualified as a Finance/Administration Section Chief Type 2 (FSC2) Designed to meet a portion of the training needs in the finance section organization. Topics
Description.	include predispatch and response, organization and operation of the finance function, and demobilization.
Prerequisites:	Qualified as a Time Unit Leader (TIME)
Certification:	Qualified as a Procurement Unit Leader (PROC) <i>or</i> Cost Unit Leader (COST) None
Class Size:	40
Restrictions:	None
Course:	S-490: Advanced Wildland Fire Behavior Calculations (2008) FSTEP
Hours: Designed For:	40 Personnel desiring to be qualified as a Fire Behavior Analyst (FBAN) or Long Term Fire Analyst
Designed 101.	(LTAN)
Description:	This course is the fourth in a series designed to develop fire behavior and prediction knowledge
	and skills and prepares the student for S-590, Advanced Fire Behavior Interpretation. Examples
	and a sector conditional television of the sector state of the difference of the sector state of the sector sector state of the se
	and exercises are divided between wildfire and prescribed fire applications. The student learns to project fire perimeter growth based on weather predictions and knowledge of fuels and
	and exercises are divided between wildfire and prescribed fire applications. The student learns to project fire perimeter growth based on weather predictions and knowledge of fuels and topography, using a variety of scenarios.
Prerequisites:	project fire perimeter growth based on weather predictions and knowledge of fuels and topography, using a variety of scenarios. S-390 and proficiency using nonautomated fire behavior processors and the latest computerized
-	project fire perimeter growth based on weather predictions and knowledge of fuels and topography, using a variety of scenarios. S-390 and proficiency using nonautomated fire behavior processors and the latest computerized fire modeling system
Certification:	project fire perimeter growth based on weather predictions and knowledge of fuels and topography, using a variety of scenarios. S-390 and proficiency using nonautomated fire behavior processors and the latest computerized fire modeling system None
-	project fire perimeter growth based on weather predictions and knowledge of fuels and topography, using a variety of scenarios. S-390 and proficiency using nonautomated fire behavior processors and the latest computerized fire modeling system
Certification: Class Size:	project fire perimeter growth based on weather predictions and knowledge of fuels and topography, using a variety of scenarios. S-390 and proficiency using nonautomated fire behavior processors and the latest computerized fire modeling system None 40

NWCG

National Wildlife Coordinating Group (208-387-5119)

www.nwcg.gov



Course:	S-491: Intermediate National Fire Danger Rating System (2003)	FSTEP
Hours:	32	
Designed For:	Dispatchers and others charged with editing and inputting weather information into WIMS u	sed
Description:	for NFDRS calculations, fire management staff who apply NFDRS outputs to decision making Fire Behavior Specialists who incorporate NFDRS products into assessments and projections The course develops the knowledge and skill to operate, maintain, and manage the NFDRS a local unit. Course lecture and exercises support practical and technical application of the intellectually complex subject matter. The course requires a computer classroom with interne	at the
Prerequisites:	access to present. S-290 Successful completion of the prequalifying course work Intermediate skills with the current Windows™ operating system Possess a valid Weather Information Management System (WIMS) logon identification	
Certification:	None	
Class Size:	40	
Restrictions:	None	

VENDOR		
NWCG	National Wildlife Coordinating Group (208-387-5119)	www.nwcg.gov



PO Box 944246, Sacramento CA 94244-2460

ICS-ALL	RISK	COURSES
		00011020

Cou	rse: S-330: Task Force/Strike Team Leader All Risk (2002)		FSTEP	
Ho	urs: 28			
Designed	For: Individuals qualifying within the ICS as a Task Force or Strike Tea	Individuals qualifying within the ICS as a Task Force or Strike Team Leader		
Descript				
		management of a strike team or task force and meets the S-330 training requirements of the		
	California Incident Command Certification System (CICCS) for th	e position of S	Strike Team/Task	
	Force Leader-All Risk.			
Prerequis	tes: I-300, S-290			
Certificat	ion: N/A			
Class S				
Restricti	ons: None			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Fireline Har 	udbook (NFES 0065)	Current	NWCG	
 ICS 420-1 F 	ield Operations Guide (Pocket)	Current	FIRESCOPE	
 Student Mar 	nual	2002	FIRESCOPE or SFT	
	REQUIRED INSTRUCTOR MATERIALS			
 Fireline Har 	dbook (NFES 0065)	Current	NWCG	
 ICS 420-1 F 	ield Operations Guide (Pocket)	Current	FIRESCOPE	
 Instructor G 	uide	2002	FIRESCOPE or SFT	
 PowerPoint 	PowerPoint Slides on CD-ROM (Optional) 2002 SFT			
 Student Mar 	Student Manual 2002 FIRESCOPE or SF			
VENDORS				
FIRESCOPE	Firefighting Resources of California Organized for Potential Emergenc	ies	www.firescope.org	
NWCG	National Wildlife Coordinating Group (208-387-5119)		www.nwcg.gov	
SFT	State Fire Training Bookstore (916-445-8158)		http://sft.fire.ca.gov	

S-330 ALL RISK COURSE OUTLINE

- Information on Strike Team/Task Forces of various resources.
- Information on implementing Strike Team/Task Force Leader responsibilities prior to and during mobilization and demobilization.
- Information on implementing Strike Team/Task Force Leader responsibilities during incident activities.
- Information on identifying the hazards and risks throughout Strike Team/Task Forces deployment and describe how to mitigate them.
- Information on recognizing, planning for, and describing how to implement appropriate tactics in various all risk
 incident situations with various resources organized into strike teams or task forces.

Course Content:	
Unit 1: Course Introduction	
Course Introduction	
Unit 2: Predeployment Responsibilities	
Concept of Strike Team/Task Force Leader	
Resource Typing Standards	
ICS Resource Designation System	
Pre-Dispatch Preparation	0:30
Unit 3: Incident Responsibilities	
Administration	
Supervision	
Coordination With Other ICS Functional Areas	0:45
Strike Team/Task Force Response	
Assignment/Status	
Demobilization	0:45
Unit 4: Tactics and Safety	
Risk Management	



PO Box 944246, Sacramento CA 94244-2460

S-330 ALL RISK COURSE OUTLINE

Entrapment Avoidance	
Tactical Considerations – Wildland/Urban Interface	
Tactical Considerations – Urban Search and Rescue	
Tactical Considerations – Swiftwater/Flood	0:30
Tactical Considerations – Multi-casualty	0:30
Independent Action vs. Freelancing	0:30
Precourse Assignment Review	0:45
Written Quizzes	1:30
Local/Agency Specific Issues and Material	
Final Written Exam	1:00
Final Scenario	



PO Box 944246, Sacramento CA 94244-2460

Cours	e: S-339: Division/Group Supervisor All Risk (2000)		FSTEF
Hou			
Designed Fo	Individuals qualifying within the ICS as a Division/Group Supervisor		
Descriptio	This course teaches the student the management skills necessary to fill the position of		
	Division/Group Supervisor within the framework of ICS. It does not teach tactics or strategy and refers to these only to enhance the particular management technique associated with them.		
Duouoguiaita	, , , ,	inique associa	ted with them.
Prerequisite Certificatio			
Class Siz			
Restriction			
Restriction	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Aids to Determ	ining Fuel Models for Estimating Fire Behavior (NFES 1574)		NWCG
	book (NFES 0065)		NWCG
	erials Operational System Description (ICS-HM-120-1)		FIRESCOPE
	Operations Guide (Pocket)		FIRESCOPE
			FIRESCOPE
 Incident Response Pocket Guide (NFES 1077) 			NWCG
 Student Manua 		1999	FIRESCOPE or SFT
 Urban Search a 	nd Rescue – Operational System Description (ICS-US&R-120-1)		FIRESCOPE
	REQUIRED INSTRUCTOR MATERIALS		
 Aids to Determ 	ining Fuel Models for Estimating Fire Behavior (NFES 1574)		NWCG
 Fireline Handberger 	ook (NFES 0065)		NWCG
	erials Operational System Description (ICS-HM-120-1)		FIRESCOPE
ICS 420-1 Field Operations Guide (Pocket)			FIRESCOPE
	partment Structure Fire Operations		FIRESCOPE
Incident Response	nse Pocket Guide (NFES 1077)		NWCG
 Instructor Guid 		1999	FIRESCOPE or SFT
 Student Manua 		1999	FIRESCOPE or SFT
Urban Search and Rescue – Operational System Description (ICS-US&R–120-1) FIRESCOPE			FIRESCOPE
VENDORS			
	Firefighting Resources of California Organized for Potential Emerge	ncies	www.firescope.org
	National Wildlife Coordinating Group (208-387-5119)		www.nwcg.gov
SFT	State Fire Training Bookstore (916-445-8158)		http://sft.fire.ca.gov

S-339 ALL RISK COURSE OUTLINE

- The concepts of a division and group as it relates to the position of Division/Group Supervisor.
- The opportunity to apply Division/Group fundamentals to ALL RISK incidents.
- The opportunity to prepare for and participate in planning meetings to develop and implement division/group objectives.
- The opportunity to participate in information gathering practices.
- The opportunity to participate in an operational period briefing and a division/group briefing.
- Information on managing and adjusting the operations organization.
- An understanding of why and when tactics may need to be adjusted.
- Information on the role of the Division/Group Supervisor in risk assessment and safety management.
- The opportunity to demonstrate how to successfully coordinate internal and external relations.

Course Content:	00
Unit 1: Course Introduction	
Course Introduction0:	30
Concept of Division/Group1:	30
Pre-course Work Assignment	
Unit 2: Planning	
Information Gathering	00
Briefing	



PO Box 944246, Sacramento CA 94244-2460

S-339 ALL RISK COURSE OUTLINE

Unit 3: Supervision	
Personnel Management	
Risk Management	
Unit 4: Coordination	
Internal/External Coordination	
Written Testing	1:00
Scenario Testing	



PO Box 944246, Sacramento CA 94244-2460

Cour			FSTEP	
Ηοι		32		
Designed F	or: Individuals qualifying within the ICS as an Operations Section Chi	ef		
Descripti	: This course presents the command, management, and supervision concepts necessary to function as an Operations Section Chief. Topics include command principles, organization of the operations section, briefings, developing the operations portion of the incident action plan, and supervising operations.			
Prerequisit	I-400, S-330, S-339			
Certificati	on: None	None		
Class Si	: 40			
Restrictio	ns: None			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 ICS 420-1 Fig 	eld Operations Guide (Pocket)		FIRESCOPE	
 Student Man 	Student Manual 1999 FIRESCOPE or SFT			
	REQUIRED INSTRUCTOR MATERIALS			
 ICS 420-1 Fig 	eld Operations Guide (Pocket)		FIRESCOPE	
		FIRESCOPE or SFT		
 Student Man 	 Student Manual 1999 FIRESCOPE o 		FIRESCOPE or SFT	
VENDORS				
FIRESCOPE	Firefighting Resources of California Organized for Potential Emergencie	s	www.firescope.org	
SFT	State Fire Training Bookstore (916-445-8158)		http://sft.fire.ca.gov	

S-430 ALL RISK COURSE OUTLINE

- Information on assessing incident assignments and determining immediate needs and actions.
- Information to prepare for strategy meetings and planning meetings to develop the Incident Action Plan.
- Information to assist in the development, approval, and implementation of the Demobilization Plan.
- The opportunity to participate in an Operational Period Briefing.
- Information to manage and adjust the operations organization.
- An understanding of why and when tactics may need to be adjusted.
- Information on the role of the OSC in risk assessment and safety management.
- The opportunity to demonstrate how to successfully coordinate internal and external relations.

Course Content:	
Unit 1: Course Introduction	
Course Introduction	1:00
Operations Section Chief Role & Responsibilities	
Unit 2: Planning	
Management Cycle	
Information Gathering	1:00
Information Gathering Strategy and Planning	
Structure Protection Planning	
Structure Protection Planning Demobilization Planning	0:30
Unit 3: Supervision	
Supervision and Communication Managing and Adjusting the Operations	
Managing and Adjusting the Operations	
Risk Assessment and Safety Management	
Unit 4: Coordination	
Personnel Interaction	



PO Box 944246, Sacramento CA 94244-2460

		INSTRUC	CTOR COURSES
Cour	se: Ethical Leadership in the Classroom (2007)		FSTEP
Hou	rs: 8		
Designed F	or: State Fire Training Instructors		
Descriptio	on: This one-day course is designed to provide you with concep making process, help you recognize the signs of an ethical d disadvantages of ethical behavior, and an opportunity to rev in which instructors used their leadership role to either enco Participants in this class will examine ethics, values, principl Instructor Code of Ethics/Conduct will also be presented.	lilemma, identify adva iew examples of classi purage or discourage e	ntages and room situations thical behavior.
Prerequisit	•		
Certificatio	on: None		
Class Siz	ze: 30		
Restrictio	ns: This course <u>may</u> require a State Fire Training representative	in addition to the Prim	ary Instructor.
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Code of Ethic 	cs/Conduct (double-sided) (2 per student)	2006	SFT
 Ethics Aware 	ness Inventory	Fifth	TWI
 Value Cards 		2007	Instructor
	REQUIRED INSTRUCTOR MATERIALS		
Facilitator's C	Guide (includes value cards for printing)	2007	SFT
PowerPoint S	lides	2007	SFT
 The Emperor 	s Club DVD	2002	Various
	VENDORS		
SFT	State Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov
TWI	The Williams Institute, (480-517-1891)	WW	w.ethics-TWI.org

ETHICAL LEADERSHIP IN THE CLASSROOM COURSE OUTLINE

- A fundamental awareness of ethical values within fire service instructors by exploring examples of ethical behavior in the classroom environment.
- The basic concepts, terms, and theories of ethical decision-making processes.
- An instructor code of ethics.
- Concepts in ethical leadership.
- Ethics awareness and a method for assessing personal values.
- A process for analyzing the role of the fire service instructor in maintaining the value system through video case studies and classroom ethical situations.

Course Content	
Introduction and Overview	
Instructor Code of Ethics/Conduct	
Ethics Awareness Inventory	
Ethics, Principles, and Values	
Assessing Personal Core Values	
Recognizing Ethical Dilemmas	
Ethical Choices	1.00
Eurical Choices	1.00



PO Box 944246, Sacramento CA 94244-2460

Cours	e: Fire Instructor 2A: Techniques of Evaluation (1991)		CFSTES
Hour	s: 40		
Designed Fo	r: Instructors and supervisors who are responsible for evaluating p	erformance	
Description	This course provides the instructor/supervisor with the techniques of evaluation. Course includes:		
	Construction of written and performance tests, as well as test pl	anning, test analysi	s, test security,
	and evaluation of test results to determine instructor and studen	t effectiveness. Esse	ential course for
	writing valid, objective tests.		
Prerequisite			
•	Or		
	Training Instructor 1A, Training Instructor 1B, Training Instructor	or 1C	
Certification			
Class Siz	e: 40		
Restriction	s: None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Supple 	ement	1994	SFT
 Fire Service In 	structor	Fifth	SFT
	REQUIRED INSTRUCTOR MATERIALS		
 Certification E 	xam	1991	SFT
 Instructor Gui 	de	1994	SFT
	VENDORS		
CFCA (California Fire Chief's Association Bookstore (800-733-2314)	W	ww.calchiefs.org
FPP I	ire Protection Publications (800-654-4055)		www.ifsta.org
SFT S	tate Fire Training Bookstore (916-445-8158)		p://sft.fire.ca.gov

FIRE INSTRUCTOR 2A COURSE OUTLINE

Course Objectives: To provide the student with...

• The methods and techniques for constructing and using tests.

- Information to recognize and avoid poor questions and tests.
- The opportunity to apply the principles of test construction through practice test construction exercises.
- Information to plan tests and to perform test and item analysis.
- A variety of methods for managing the evaluation process.

Course Content	
Introduction	0:30
Purposes of Testing	
Principles of Testing	
Uses of Oral Tests	
Test Planning	
True/False Test Construction	
Multiple Choice Test Construction	
Uses of Subjective Tests	
Theory of Manipulative Performance Testing	
Constructing and Administering Manipulative Performance Tests	0:45
Test and Item Analysis	0:45
Matching Test Construction	
Short Answer Test Construction	
Completion Test Construction	0:30
Periodic Personnel Evaluations	0:45
Managing the Evaluation Process	
Administering Tests to Meet Minimum Standards	
Using Assessment Centers as a Training Rescue	0:30
Group Assignments	
Quizzes and Review	
Course Review and Certification Exam	



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Instructor 2B: Group Dynamics and Problem Solving (1990)	CFSTES
Hours:	40	·	
Designed For:	Instructors, Training Officers, and management personnel who must lead discussions or staff		
	meetings		
Description:	This course is designed to develop leadership skills. Group		
	techniques, and interpersonal relations are utilized in staff	8,	
	conference meetings. Skills are developed for conducting f discussions, and forums.	ormal public meetings,	paner
Prerequisites:	Fire Instructor 1A, Fire Instructor 1B		
recquisitesi	or		
	Training Instructor 1A, Training Instructor 1B, Training Inst	ructor 1C	
Certification :	Fire Instructor II		
	Plans Examiner		
Class Size:	30		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Student Manual		Second	SFT
	REQUIRED INSTRUCTOR MATERIALS		
Certification Exa	n	1990	SFT
	VENDORS		
SFT Stat	e Fire Training Bookstore (916-445-8158)	http	p://sft.fire.ca.gov
	FIRE INSTRUCTOR 2B COURSE OUTLIN	IE	
Course Content			

Concepts of Group Dynamics Nonverbal Codes Evaluating Interpersonal Relations Rating Errors Discussion Groups Group Interaction Conference Leading Conference Chart Work Suggestions For Discussion Leaders Decision Making



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Instructor 2C: Employing Audiovisual Aids (1989)	CFSTES
Hours:	40	
Designed For:	Personnel involved in the design and delivery of instructional programs	
Description:	This course covers the principles and selection of media in the instructional process, en of basic and advanced forms of instructional media, use of computers in the instruction and individualized instruction programs. Teaching demonstrations are required of all pa	al process,
Prerequisites:	Fire Instructor 1A, Fire Instructor 1B	
	or	
Certification: Class Size: Restrictions:	Training Instructor 1A, Training Instructor 1B, Training Instructor 1C Fire Instructor II 30 A course outline must be submitted and approved by State Fire Training.	

	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 None 				
	REQUIRED INSTRUCTOR MATERIALS			
Certification Exam		1989	SFT	
VENDORS				
SFT	State Fire Training Bookstore (916-445-8158)	ht	http://sft.fire.ca.gov	

FIRE INSTRUCTOR 2C COURSE OUTLINE

None (see "Restrictions" above)



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Instructor 3: Master Instructor Competency Evaluation (2010)		CFSTES
Hours:	36		
Designed For:	Future instructors for Training Instructor 1A, 1B, and 1C courses		
Description:	This course provides information necessary to deliver the Training Inst	structor 1A, 1B,	and 1C
	courses and gives additional instruction in classroom communication	s. Successful co	mpletion of
	the class requires each student to adapt a current Training Instruction	cognitive lesso	n plan and
	deliver a 30-minute teaching demonstrations. This course is mandato	ry for a person v	who desires to
	teach Training Instructor 1A, 1B, or 1C.		
Prerequisites:	One of the following four Level 1 options (valid through 6/30/2011)		
-	1) Fire Instructor 1A and Fire Instructor 1B		
	2) Fire Instructor 1A, Training Instructor 1A, and Training Instructor 1	С	
	3) Fire Instructor 1B, Training Instructor 1B, and Training Instructor 1	С	
	4) Training Instructor 1A, Training Instructor 1B, and Training Instruc	tor 1C	
	and		
	Fire Instructor 2A, 2B, 2C		
Certification:	Fire Instructor III		
Class Size:	Maximum: 25		
	Classes larger that 16 students require either another Senior Master Ir	structor or Seni	or Master
	Instructor Trainee to assist with evaluating the student instructor teacl	ning demonstrat	ions
Restrictions:	The Primary Instructor for this course must be a registered Senior Mas	0	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Fire and Emergen	cy Services Instructor	Seventh	CECA/EPP

		EDITION	TENDONS
 Fire and 	Emergency Services Instructor	Seventh	CFCA/FPP
 Fire Instruct 	uctor 3 Student Supplement	2011	SFT
 Training 	Instructor 1A Instructor Guide and Student Supplement*	2010	SFT
 Training 	Instructor 1B Instructor Guide and Student Supplement *	2010	SFT
 Training 	Instructor 1C Instructor Guide and Student Supplement*	2010	SFT
*Purcha	ased separately by the student, not included in the course registration fee		
	REQUIRED INSTRUCTOR MATERIALS		
 Fire and 	Emergency Services Instructor	Seventh	CFCA/FPP
 Fire Instruct 	uctor 3 Instructor Guide	2011	SFT
 Fire Instruct 	uctor 3 PowerPoint Slides on CD-ROM	2011 SFT	
 Fire Instruct 	uctor 3 Student Supplement	2010 SFT	
 Training 	Instructor 1A Instructor Guide and Student Supplement*	1A Instructor Guide and Student Supplement* 2010 SFT	
 Training 	 Training Instructor 1B Instructor Guide and Student Supplement * 2010 SF 		SFT
 Training Instructor 1C Instructor Guide and Student Supplement* 		2010	SFT
 Video Re 	cording Equipment for Teaching Demonstrations (Optional)		
	VENDORS		
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	www.calchiefs.org	
FPP	Fire Protection Publications (800-654-4055)	www.ifsta.org	
SFT	State Fire Training Bookstore (916-445-8158)	http://sft.fire.ca.gov	

FIRE INSTRUCTOR 3 COURSE OUTLINE

- Information to select, develop, organize, and utilize teaching methods and concepts that may be utilized in an interior or exterior learning environment
- Instructional techniques, tools, and materials while utilizing the Training Instructor curricula
- Techniques to develop and deliver an illustrated teaching presentation selecting from a variety of methods and techniques
- Constructive and positive feedback from peers to improve their personal teaching skills

Course Content	6:00
Introduction and Course Overview	
Master Instructor Registration	2:00
Mastering Lesson Plan Development	
Mastering Teaching Demonstrations	



PO Box 944246, Sacramento CA 94244-2460

FIRE INSTRUCTOR 3 COURSE OUTLINE

Evaluation Process For Teaching Demonstrations	1:00
Testing and Evaluation	1:00
Mastering the Current Training Instructor Curricula	
Training Instructor Tips and Techniques	2:00
Student Teaching Demonstrations Including Critique and Feedback	



Cours	e: Instructional Techniques for Company Officers		FSTEP
Hou	's: 16		
Designed Fo	r: Company Officers and fire fighters responsible for in-service instruc	ction and trainir	ng
Descriptio	n: This NFA hand-off course covers basic instructional concepts and to communication, teaching from lesson plans, and methods of instru- skills training and adult learning.		
Prerequisite	s: None		
Certificatio	n: None		
Class Siz	e: 25		
Restriction	s: None		
_	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manu 	al		NTIS
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Gu 	de		NTIS
	VENDORS		
NTIS	National Technical Information Service (800-553-6847)		www.ntis.gov
L			
	INSTRUCTIONAL TECHNIQUES FOR COMPANY OFFICERS COUR	SE OUTLINE	
 None 			



=

COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course:	Regional Instructor Orientation		CFSTES
Hours:	7		
Designed For:	Personnel interested in teaching any State Fire Training courses		
Description:	This course is designed to provide instructors who will deliver SFT training programs with an overview of State Fire Training, CFSTES and FSTEP, instructor registration requirements, instructor responsibilities and accountability, how to schedule and return courses, and the SFT Procedures Manual.		
Prerequisites:	None		
Certification:	None		
Class Size:	30		
Restrictions:	This course is scheduled and taught by State Fire Training staff only.		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Supplem 	ent	Current	N/A
 SFT Procedures N 	Aanual	Current	Online
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guide 		Current	N/A

REGIONAL INSTRUCTOR ORIENTATION COURSE OUTLINE

- A working knowledge of the State Fire Training procedures for instructor registration, responsibilities, accountability, and maintenance.
- A working knowledge of the State Fire Training procedures for course administration.
- Tools to navigate the State Fire Training system successfully.

Course Content:	
Administration and SFT Overview	
Instructor Qualifications and Registration	
Instructor Responsibilities and Accountability	
State Fire Training Procedures Manual	
Instructor Application Review Assistance	



.

COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

Training Instructor 1A: Cognitive Lesson Delivery (2010) Course: **CFSTES** Hours: 40 **Designed For:** Personnel preparing for a Company Officer, SFT Registered Instructor, or Training Officer position **Description:** This is the first of a three-course series. Topics include methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two (2) student instructor teaching demonstrations are required of all. **Prerequisites:** None **Certification:** Fire Officer Training Instructor **Class Size:** Maximum: 25 Classes larger that 16 students require either another Master Instructor or a qualified skills evaluator to assist with evaluating the student instructor teaching demonstrations **Restrictions:** None **REQUIRED STUDENT MATERIALS EDITION** VENDORS Fire and Emergency Services Instructor CFCA/FPP Seventh Training Instructor 1A Student Supplement 2010 SFT **REQUIRED INSTRUCTOR MATERIALS** Fire and Emergency Services Instructor Seventh CFCA/FPP Instructor-developed Summative Test Current Instructor PowerPoint Slides on CD-ROM (Optional) SFT • 2010 Training Instructor 1A Guide 2010 SFT Training Instructor 1A Student Supplement 2010 SFT VENDORS CFCA California Fire Chief's Association Bookstore (800-733-2314) www.calchiefs.org FPP Fire Protection Publications (800-654-4055) www.ifsta.org SFT State Fire Training Bookstore (916-445-8158) http://sft.fire.ca.gov

TRAINING INSTRUCTOR 1A: COGNITIVE LESSON DELIVERY

- A variety of methods and techniques for training in accordance with the latest concepts in career education.
- . Information to select, adapt, organize, and utilize instructional materials appropriate for teaching cognitive lessons.
- Criteria and methods to evaluate teaching and learning efficiency.
- An opportunity to apply major principles of learning through teaching demonstrations.

Course Content:	
Unit 1: Introduction	
Orientation and Administration	
Unit 2: Instructional Methodology, Adaptation, and Delivery	
Fire and Emergency Services Instruction As It Relates To Cognitive Training	1:00
Principles of Learning	
Defining Levels of Instruction	0:30
Components of Learning Objectives	0:30
Employing the Four-step Method of Instruction As It Relates To Cognitive Training	
Assembling and Reviewing Instructional Materials As They Relate To Cognitive Training	
Adapting Cognitive Lesson Materials	
Legal and Ethical Considerations As They Relate To Cognitive Training	
Methods of Instructional Delivery	
Presentation Techniques For Cognitive Training	
Managing the Learning Environment for Cognitive Training	
Selecting and Using Audiovisual Training Aids	
Effective Interpersonal Communications	
Student Attitudes and Behaviors	
Procedure Used For Evaluating Student Instructor Teaching Demonstrations	1:00



PO Box 944246, Sacramento CA 94244-2460

TRAINING INSTRUCTOR 1A: COGNITIVE LESSON DELIVERY

Unit 3: Testing	
Introduction To and Administration of Oral and Written Tests	
Student Progress and Testing Feedback	0:30
Student Instructor Teaching Demonstrations	
Formative Tests	
Instructor-developed Summative Test	



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

Training Instructor 1B: Psychomotor Lesson Delivery (2010) Course: CFSTES Hours: 40 Personnel preparing for a Company Officer, SFT Registered Instructor, or Training Officer position **Designed For: Description:** This is the second of a three-course series. Topics include methods/techniques for training with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching psychomotor lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Two (2) student instructor teaching demonstrations are required of all. **Prerequisites:** Training Instructor 1A **Certification:** Fire Officer Training Instructor **Class Size:** Maximum: 25 Classes larger that 16 students require either another Master Instructor or a qualified skills evaluator to assist with evaluating the student instructor teaching demonstrations **Restrictions:** None **REQUIRED STUDENT MATERIALS EDITION** VENDORS Fire and Emergency Services Instructor CFCA/FPP Seventh Training Instructor 1B Student Supplement 2010 SFT **REQUIRED INSTRUCTOR MATERIALS** Fire and Emergency Services Instructor CFCA/FPP Seventh Instructor-developed Summative Test . Current Instructor PowerPoint Slides on CD-ROM (Optional) 2010 SFT Training Instructor 1B Instructor Guide 2010 SFT Training Instructor 1B Student Supplement 2010 SFT VENDORS California Fire Chief's Association Bookstore (800-733-2314) CFCA www.calchiefs.org FPP Fire Protection Publications (800-654-4055) www.ifsta.org SFT State Fire Training Bookstore (916-445-8158) http://sft.fire.ca.gov TRAINING INSTRUCTOR 1B: PSYCHOMOTOR LESSON DELIVERY Course Objectives: To provide the student with... A variety of methods and techniques for training in accordance with the latest concepts in career education. Information to select, adapt, and use instructional materials appropriate for teaching psychomotor lessons. Criteria and methods to evaluate teaching and learning efficiency. An opportunity to apply major principles of learning through teaching demonstrations. Unit 1: Introduction Unit 2: Instructional Methodology, Adaptation, and Delivery Fire and Emergency Services Instruction As It Relates To Psychomotor Training......1:00 Managing the Learning Environment For Psychomotor Training......1:00 Legal and Ethical Considerations As They Relate To Psychomotor Training......1:30 Unit 3: Testing Instructor-developed Summative Test1:00



PO Box 944246, Sacramento CA 94244-2460

Course:	Training Instructor 1C: Instructional Development Techniques (2010)	CFSTES
Hours:	40	
Designed For:	Personnel preparing for SFT Registered Instructor or Training Officer position	
Description:	This is the third of a three-course series. Topics include methods and techniques for deve	loping
	lesson plans, ancillary components, and tests in accordance with the latest concepts in ca	areer
	education. The course offers the opportunity to develop, receive feedback, and finalize	aching
	instructional materials and deliver a teaching demonstration. Two (2) student instructor te demonstrations are required of all.	eaching
- ···	•	
Prerequisites:	Training Instructor 1A, Training Instructor 1B	
Certification :	Training Instructor	
Class Size:	Maximum: 25	
	Classes larger that 16 students require either another Master Instructor or a qualified skille evaluator to assist with evaluating the student instructor teaching demonstrations	5
Restrictions:	None	

	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Fire and 	Emergency Services Instructor	Seventh	CFCA/FPP
 Training 	Instructor 1C Student Supplement	2010	SFT
	REQUIRED INSTRUCTOR MATERIALS		
 Fire and 	Emergency Services Instructor	Seventh	CFCA/FPP
Instructor	Instructor-developed Summative Test Current Instructor		Instructor
 PowerPerformed 	PowerPoint Slides on CD-ROM (Optional) 2010 SFT		SFT
Training Instructor 1C Instructor Guide 2010 SFT		SFT	
Training Instructor 1C Student Supplement 2010 SFT		SFT	
	VENDORS		
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	W	ww.calchiefs.org
FPP	Fire Protection Publications (800-654-4055)		www.ifsta.org
SFT	State Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov

TRAINING INSTRUCTOR 1C: INSTRUCTIONAL DEVELOPMENT TECHNIQUES

- A variety of methods and techniques for developing lesson plans and tests in accordance with the latest concepts in career education.
- Information to develop cognitive and psychomotor lesson plans and related supplemental materials.
- Various testing instruments to evaluate teaching and learning efficiency.

 An opportunity to develop, receive feedback, and finalize instructional materials and deliver a t demonstration. 	teaching
Course Content:	
Unit 1: Introduction	
Orientation and Administration	
Unit 2: Methodology	
Reasons For Lesson Plan Development	0:30
Sources of References and Materials	0:30
Determining Levels of Instruction	0:30
Employing the Four-step Method of Instruction	0:30
Teaching English Learners and Students With Special Needs	0:30
Unit 3: Instructional Preparation and Delivery	
Elements of A Course Outline	
Components of Cognitive and Psychomotor Lesson Plans	
Developing Student Behavioral Objectives	
Developing A Cognitive Lesson Plan (SFT Format)	
Developing A Psychomotor Lesson Plan (SFT Format)	
Developing and Employing Ancillary Components	
Selecting and Employing Audiovisual Training Aids	
Transition Techniques Within and Between Audiovisual Training Aid Devices	1:00



PO Box 944246, Sacramento CA 94244-2460

TRAINING INSTRUCTOR 1C: INSTRUCTIONAL DEVELOPMENT TECHNIQUES

	0.00
Cleaning and Field Level Maintenance For Audiovisual Training Aid Devices	0:30
Developing Audiovisual Training Aids	1:30
Procedures For Evaluating Student Instructor Teaching Demonstrations	0:30
Unit 4: Testing	
Purpose, Selection Criteria, and Elements of Test Instruments	1:00
Creating Oral, Written, and Performance Tests	
Methods of Administering and Grading Test Instruments (Oral and Written)	1:00
Student Instructor Teaching Demonstrations	
Formative Tests	
Instructor-developed Summative Test	1:00



		INVESTIGA	TION COURSES
Course:	Explosives Recognition and Reconnaissance		FSTEP
Hours:	40		
Designed For:	Fire investigators and law enforcement personnel		
Description: Designed to instruct on the identification, description, and evaluation of explosives and fireworks and to cover applicable laws and regulations. Stresses legal preplanning for EOD incidents, bomb threat incident response blast mitigation, scene safety and security, evacuation protocols and scene search techniques. Does not involve handling of any explosives.			ncidents, bomb
Prerequisites:	Employment with a public safety agency or response to EOD incidents		
Certification:	None		
Class Size:	40		
Restrictions:	This course is scheduled and taught by SFM Arson and Bomb Inve	stigators only.	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
None			
	REQUIRED INSTRUCTOR MATERIALS		
None			
	EXPLOSIVES RECOGNITION AND RECONNAISSANCE COURSE	OUTLINE	
None			



Course:	Fire/Arson Detection		FSTEP		
Hours:	16				
Designed For:	Designed For: Fire fighters and fire investigators involved in fire investigation				
Description:	Description: This NFA hand-off course covers determining the point of origin and probable cause, recognizing indications of possible arson, preserving the fire scene and evidence for investigative purposes, and basic procedures relative to conducting a fire investigation.				
Prerequisites:	Prerequisites: None				
Certification:	Certification: None				
Class Size:	Class Size: 40				
Restrictions:	None				
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS		
 Student Manual 			NTIS		
	REQUIRED INSTRUCTOR MATERIALS				
 Instructor Guide 			NTIS		
	VENDORS				
NTIS Na	tional Technical Information Service (800-553-6847)		www.ntis.gov		
· · · ·					
	FIRE/ARSON DETECTION COURSE OUTLINE				
 None 					



PO Box 944246, Sacramento CA 94244-2460

	Course	Fire Investigation 1A: Fire Origin and Cause Determination (1996)			
	Hours	s: 40	40		
	Designed For	r: Fire fighters, fire investigators, and law enforcement office	ers assigned to fire investi	gation	
	Description	This course provides the participants with an introduction	n and basic overview of fi	re scene	
		investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin.			
	Prerequisites: None				
	Certification				
		Fire Investigator I			
	Class Size	e: 40			
	Restriction	s: None			
		REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
•	Student Manua	al	1996	SFT	
		REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS	
•	Certification Ex	xam	1996	SFT	
	Instructor Guid	de	1996	SFT	
		VENDORS			
S	FT S	tate Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov	

FIRE INVESTIGATION 1A COURSE OUTLINE

- To provide students with an overview of fire investigative practices and responsibilities associated with fire origin and cause.
- To provide students with technical information enabling them to determine the area of fire origin.
- To provide students with background information that will lead them to develop an opinion of the fire causes.

 To provide students with technical information on the State's arson laws and legal aspects of fill 	re scope investigation
Course Content	
Orientation and Administration	
Introduction to Fire Investigation	
Fire Behavior	
Legal Aspects of Fire Investigation	
Arson Law	
Fire Scene Documentation	
Point of Origin Determination	
Accidental Ignition Sources	
Electrical Ignition Sources	
Arson Fire Indicators	
Incendiary Devices	
Structure Fire Investigation	
Vehicle Fire Investigation	
Wildland Fire Investigation	
Explosions	
Course Review and Certification Exam	



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Investigation 1B: Techniques of Fire Investigation (2000)		CFSTES
Hours:	40		
Designed For:	Fire fighters and fire investigation personnel		
Description:	This course provides a deeper understanding of fire investigation a	nd builds on Fir	e Investigation
	1A. Topics include the juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives, and fire fatalities.		
Prerequisites:	Prerequisites: Fire Investigation 1A		
Certification:			
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 		2000	SFT
	REQUIRED INSTRUCTOR MATERIALS		
 Certification Exar 	n	2000	SFT
 Instructor Guide 		2000	SFT
 PowerPoint Slide 	s on CD-ROM (Optional)	2000	SFT
VENDORS			

SFT

FIRE INVESTIGATION 1B COURSE OUTLINE

Course Objectives: To provide the student with...

Information on scene safety for the investigator including post blast investigation.

State Fire Training Bookstore (916-445-8158)

- Information on evidence recognition, documentation, and preservation including scene photography and trace evidence.
- Information on witness and suspect interviewing and interrogation, including juvenile law.
- Information on fire fatalities and injuries including scene investigation and mechanism of injury
- Information documentation of findings including case reports, insurance information, and other resources available to the investigator.

Course Content	
Introduction to Investigation 1B	
Motives	
Scene Safety for the Investigator	
Post Blast Investigation	
Scene Photography	
Evidence Recognition, Documentation, and Preservation	
Trace Evidence	
Introduction to Interviewing	
Techniques of Interviewing	
Introduction to Juvenile Law	
Scene Investigation	
Mechanism of Injury	
Introduction to Case Reports	
Insurance Information for the Fire Investigator	
Resources	
Building Construction Drawings and Terminology	
Course Review and Certification Exam	

http://sft.fire.ca.gov



PO Box 944246, Sacramento CA 94244-2460

			OFOTEO
	Irse: Fire Investigation 2A: Criminal and Legal Procedures (20)	03)	CFSTES
-	ours: 40		
Designed	For: Fire investigation personnel		
Descript	Description: This course provides information on conducting an explosive investigation and a surveillance operation, preparing a search warrant, testifying as an expert witness, assembling a curriculum vitae, and properly documenting a criminally caused fire. In addition, each student will be assigned to an investigative team to conduct an investigation of their own criminally caused fire. During this practical exercise, each team will be required to conduct the scene investigation, properly collect and document supportive evidence, prepare their written case report, and present their finding to a district attorney and a judge to review.		
Prerequis			
Certificat	,		
Class S			
Restricti	•		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Sup 	pplement	1989	SFT
 Search War 	rants	2003	CDAA
	REQUIRED INSTRUCTOR MATERIALS		
 Certification 	n Exam	1990	SFT
 Instructor G 	Guide	1989	SFT
	VENDORS		
CDAA	California District Attorney's Association		www.cdaa.org
SFT	State Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov

FIRE INVESTIGATION 2A COURSE OUTLINE

- Information to differentiate between the three effects of an explosion.
- Information and techniques to establish an arson corpus after examining a practical fire scene.
- A fire scene to examine and determine the appropriate evidence to support a fire cause.
- Information to appraise an explosion scene to determine if a criminal act has occurred.
- Techniques to organize their case investigation utilizing proper case reports, court exhibits, and testimony.
- The four different methods of heat transfer in order to compare their effects during a practical situation.
- Information to differentiate between the U.S. Supreme Court's findings and California State Supreme Court requirements in preparing a search warrant and apply the rules appropriately to a practical situation.
- Applicable California Arson Law section (s) pertaining to a practical situation.
- Information to recognize the elements necessary for the ignition and the sustained combustion of fuel and heat in a
 practical situation.
- Common scene indicators of arson and their applicability to a practical situation.
- The methodology and procedures required for a proper surveillance operation.

Course Content	
Orientation and Administration	
Explosion Investigation	
Surveillance Investigations	
Resume Reviews	
Fourth Amendment Review Inspection and Search Warrants	
Search Warrants	
Live Fire Demonstration and Structure Burn Examination	
Fire Scene Investigations	
Report Writing and Documentation on Fire Scene Investigations	
Court Room Demeanor	
Case Preparation	6:00
Moot Court	
Course Review and Certification Exam	



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Investigation 2B: Field Case Studies		CFSTES		
Hours:	40				
Designed For:	Designed For: Fire and law enforcement officers responsible for fire investigation and courtroom appearances				
Description:	Description: This course provides advanced instruction in fire scene investigation, case preparation, and courtroom presentation. Topics include review of fire scene photography, sketching, evidence collection, interviewing and interrogation, and extensive use of simulations for developing and presenting an arson case.				
Prerequisites:	Prerequisites: Fire Investigation 1A, Fire Investigation 1B, Fire Investigation 2A				
Certification:					
Class Size:	30 (24 optimum)				
Restrictions:	None				
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS		
 Student Manual 		Second	SFT		
	REQUIRED INSTRUCTOR MATERIALS				
 Instructor Guide 		Second	SFT		
	VENDORS				
SFT State	e Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.gov		
	FIRE INVESTIGATION 2B COURSE OUTLINE				

None



PO Box 944246, Sacramento CA 94244-2460

MANAGEMENT COURSES

		MANAGLI	IENT COURSES	
Course Hours		Fire Management 1: Management/Supervision for Company Officers (2000) CFSTES		
Designed For	r: Company Officers or fire fighters preparing for the position of Com	pany Officer		
Description	This course prepares or enhances the first line supervisor's ability to supervise subordinates. It introduces key management concepts and practices utilized and includes discussions about decision making, time management, leadership styles, personnel evaluations, and counseling guidelines.			
Prerequisites				
Certification				
Class Size				
Restriction	s: None			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Fire and Emerg 	gency Services Company Officer	Fourth	FPP	
 Student Supple 	ement	2000	SFT	
	REQUIRED INSTRUCTOR MATERIALS			
 Certification Ex 	xam	2010	SFT	
 Fire and Emerg 	gency Services Company Officer	Fourth	FPP	
Instructor Guid	le	2000	SFT	
 PowerPoint Sli 	 PowerPoint Slides on CD-ROM (Optional) 2000 SFT 		SFT	
 Student Supple 	Student Supplement 2000 SFT		SFT	
	VENDORS			
FPP F	ire Protection Publications (800-654-4055)		www.ifsta.org	
SFT S	tate Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov	

FIRE MANAGEMENT 1 COURSE OUTLINE

- Information for the transition from fire fighter to fire officer by presenting the skills and responsibilities required of first level supervisors.
- A summary of how internal and external influences affect the fire officer and how to effectively deal with these influences.
- An overview of supervision, management, and leadership concepts, practices, and theories.
- A summary of the advantages, disadvantages, and effects of various recognized styles of leadership and leadership profiles.
- A summary of common emotional and behavioral characteristics of an individual or working group as it applies to the responsibility of subordinates and supervisors.
- An overview of basic supervisory, managerial, and leadership skills required in decision making, delegating, personnel motivation, communicating, time management, resource management, record keeping, team building, disciplinary functions, and dealing with change and stress.
- Examples of the following techniques used by supervisors in managing personnel: conducting interviews, counseling, controlling work activities, goal setting, evaluating, promoting affirmative action, and managing the work place environment.
- A summary of the effects, interpretation, implementation, and development of policies and procedures and the necessity for accuracy, clarity, and impartiality.

Course Content	
Unit 1 - Introduction	
Orientation and Administration	
Introduction to Management and Supervision	
Unit 2 - Supervision	
Principles of Organizations and Organizational Structure	
Motivation	
Delegation	
Problem Solving/Decision Making	
Verbal Communication	
Written Communication	



PO Box 944246, Sacramento CA 94244-2460

FIRE MANAGEMENT 1 COURSE OUTLINE

Group Dynamics	
Managing Conflict	
Performance Evaluations	
Coaching, Counseling, and Progressive Discipline	
Due Process	
Grievance Handling	
Unit 3 – Management	
Internal and External Influences	
Elements of Management	
Managing Change	
Time Management	
Unit 4 – Leadership	
Basic Views of Leadership	
Situational Leadership	
Leadership Qualities and Traits	
Unit 5 – Human Relations	
Managing the Workplace Environment	
Affirmative Action, Equal Employment Opportunity, and ADA	
Unit 6 – Safety and Wellness Programs	
Safety Management	
Stress Management and Wellness	
NFPA 1500 Standard	
Unit 7 – Laws, Standards, and Liability	
Liability of the Company Officer	
Quizzes	
Course Review and Certification Exam	



PO Box 944246, Sacramento CA 94244-2460

Co	ourse:	Fire Management 2A: Organizational Development and Human Relatio	ons (2009)	CFSTES
	lours:	40	13 (2005)	CISTES
Designed		Chief Officers, Company Officers, Staff Officers, Training Officers and c	other Fire Service	Managers
Descrip		This course provides information on the foundations of 1) individual be		
•		emotions, motivational concepts, individual decision making; 2) group		
		dynamics, group communication, conflict and negotiations, power and		
		creating trust; and 3) organizational structure, human resources policies	and practices, or	ganizational
		culture, and organizational change and development.		
Prerequi		Fire Management 1		
Certifica		Chief Officer		
Class		40		
Restrict	tions:	None	FRITION	
		REQUIRED STUDENT MATERIALS	EDITION	VENDORS
		cer's Desk Reference (Optional)	2006	JB
		Behavior, Stephen P. Robbins and Tim A. Judge	13 th	PH
Ihe Fire	e Chief	s Handbook	Sixth	PW
		REQUIRED INSTRUCTOR MATERIALS		
		cer's Desk Reference (Optional)	2006	JB
		eloped Summative Test	Current	Instructor
		orms or Kiersey Sort Forms		CPP
		Behavior, Stephen Robbins	12 th	PH
		s Handbook	Sixth	PW
 The Fire 	e Chief	s Handbook Study Guide (Optional)	Sixth	PW
		VENDORS		
CPP			.cpp.com/compa	ny/contact.asp
JB		and Bartlett Publishers (800-832-0034 x2)		ww.jbpub.com
PH	Pears	on/Prentice Hall		g.prenhall.com.
PW	Penn	Well Books/Fire Engineering (800-752-9764) www	w.pennwellbooks	s.com/fire.html .

FIRE MANAGEMENT 2A COURSE OUTLINE

Course Objectives: To provide the student with...

- Techniques to make the transition from supervisor to manager.
- Information regarding the impact of internal and external influences on the organization and the impact of culture.
- Information on personality traits inherent in individuals and their effect on the organization.
- Information on group dynamics and its impact on the organization.
- Information conflict resolution and negotiations.
- Methods and styles of leadership and techniques for creating trust within the organization.
- Information on the nature of power and politics within the organization.

Unit 1: Introduction

What Is Organizational Behavior?

Unit 2: the Individual

Foundations of Individual Behavior

Values, Attitudes, and Job Satisfaction

Personality and Emotion

Perception and Individual Decision Making

Basic Motivation Concepts

Motivation: From Concepts to Applications

Unit 3: the Group

Foundations of Group Behavior

Understanding Work Teams

Communication

Basic Approaches to Leadership

Contemporary Issues in Leadership





PO Box 944246, Sacramento CA 94244-2460

FIRE MANAGEMENT 2A COURSE OUTLINE

Power and Politics Conflict and Negotiation Unit 4: the Organization System Foundations of Organization Structure. Organizational Culture. Human Resource Policies and Practices. Unit 5: Organizational Dynamics Organizational Change and Stress Management. Unit 6: Contemporary Issues Regarding Organizational Development and Human Relations Instructor-developed Summative Test



PO Box 944246, Sacramento CA 94244-2460

	urse: Fire Management 2B: Fire Service Financial Managem ours: 40	ent (2009)	CFSTES
Designed		other Fire Service Managers	
Descrip			
Prerequi			
Certifica			
Class			
Restric			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Chief Fi 	re Officer's Desk Reference (Optional)	2006	JB
 Manage 	ment Policies in Local Government Finance	Fifth	ICMA
 Managi 	ng Fire and Rescue Services (Optional)	2002	ICMA
 The Fire 	e Chief's Handbook	Sixth	PW
	REQUIRED INSTRUCTOR MATERIALS		
 Chief Fi 	re Officer's Desk Reference (Optional)	2006	JB
Instruct	or-developed Summative Test	Current	Instructor
 Manage 	ment Policies in Local Government Finance	Fifth	ICMA
 Managi 	ng Fire and Rescue Services (Optional)	2002	ICMA
 The Fire 	e Chief's Handbook	Sixth	PW
 The Fire 	Chief's Handbook Study Guide (Optional)	Sixth	PW
	VENDORS		
ICMA	International City/County Management Association (202-289	-4262) www.	icma.org/press/
JB	Jones and Bartlett Publishers (800-832-0034 x2)		ww.jbpub.com
PW	PennWell Books/Fire Engineering (800-752-9764)	www.pennwellbook	/ /

FIRE MANAGEMENT 2B COURSE OUTLINE

Course Objectives: To provide the student with...

- Techniques to make the transition from supervisor to manager.
- Information on developing new revenue sources.
- Information on designing a budget process that includes performance reporting.
- Information on conducting strategic economic development.
- Information on debt management and bond sales.
- Techniques for using modern information systems to improve financial decisions.

Methods for meeting the day-to-day challenges of financial management, from procurement to labor negotiations.

Unit 1: the Local Government Setting

- The Finance Function in Local Government
- Fiscal Structure in the Federal System
- Public School Finance

Local Government Expenditures and Revenues

Unit 2: Management Tools

Forecasting Local Revenues and Expenditures Cost-benefit Analysis and the Capital Budget

Budgeting

Financial Accounting, Reporting, and Auditing

Enterprise Resource Planning Systems

Unit 3: Revenue Sources

The Property Tax

General Sales, Income, and Other Nonproperty Taxes

User Charges and Special Districts

Unit 4: Financial Management

Economic Development





PO Box 944246, Sacramento CA 94244-2460

FIRE MANAGEMENT 2B COURSE OUTLINE

Debt Management Procurement Cash and Investment Management Risk Management Public Employee Pension Funds Unions and Collective Bargaining Unit 5: Contemporary Issues Relating to Fire Service Financial Management Instructor-developed Summative Test



PO Box 944246, Sacramento CA 94244-2460

Cours			CFSTES
Hour	••••••		
Designed Fo		8	
Description	This course is designed to provide a fire manager with knowledge and insight of personnel, human resource, diversity management, legal mandates, labor relations, and related areas. Topics include areas of organizational development, productivity, recruitment and selection, performance systems, discipline, and collective bargaining. Methodology will include, but not be limited to, presentations, case studies, group exercises, focused discussions, and written assignments.		
Prerequisite	s: Fire Management 1		
Certification	n: Chief Officer		
Class Size	e: 40		
Restriction	s: None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Chief Fire C 	Officer's Desk Reference (Optional)	2006	JB
 Managing H 	Human Resources: Productivity, Quality of Work Life, Profits	Seventh	MH
 The Fire Ch 	nief's Handbook	Sixth	PW
	REQUIRED INSTRUCTOR MATERIALS		
 Application 	is in Human Resource Management (Optional)	2007	SWC
 Chief Fire C 	Officer's Desk Reference (Optional)	2006	JB
 Instructor-d 	eveloped Summative Test	Current	Instructor
 Managing H 	Human Resources: Productivity, Quality of Work Life, Profits	Seventh	MH
 The Fire Ch 	nief's Handbook	Sixth	PW
 The Fire Ch 	ief's Handbook Study Guide (Optional)	Sixth	PW
	VENDORS		
JB Joi	nes and Bartlett Publishers (800-832-0034 x2)	WV	vw.jbpub.com
	cGraw Hill Higher Education	http://catalogs.mhhe.com/n	nhhe/home.do
MH M			
	nnWell Books/Fire Engineering (800-752-9764)	www.pennwellbooks	.com/fire.html

FIRE MANAGEMENT 2C COURSE OUTLINE

Course Objectives: To provide the student with...

- Techniques to make the transition from supervisor to manager.
- Information on the significant, competitive, legal and social issues that affect productivity, quality of life, and
 organizational success.
- Information on major legislation that impacts personnel, such as the Civil Rights Act, Equal Pay Act, Occupational Safety and Health Act.
- Information on employment tools needed to manage human resources effectively, including job analysis and design, human resource planning, and employee development.
- Information on current compensation and motivation practices used by organizations to improve employee performance and productivity.

Unit 1: Environment

Human Resources in a Globally Competitive Business Environment The Financial Impact of Human Resource Management Activities The Legal Context of Employment Decisions

Diversity at Work

Unit 2: Employment Analyzing Work and Planning for People

Recruiting

Staffing

Unit 3: Development

Workplace Training

Performance Management

Managing Careers





PO Box 944246, Sacramento CA 94244-2460

FIRE MANAGEMENT 2C COURSE OUTLINE

Unit 4: Compensation Pay and Incentive Systems Indirect Compensation: Employee Benefit Plans Unit 5: Labor-management Accommodation Union Representation and Collective Bargaining Procedural Justice and Ethics in Employee Relations Unit 6: Support and International Implications Safety, Health, and Employee Assistance Programs International Dimensions of Human Resource Management Unit 7: Contemporary Issues Relating to Personnel and Labor Relations Instructor-developed Summative Test



Course:	Fire Management 2D: Strategic Planning (2009)		CFSTE
Hours: Designed For:	40 Chief Officers, Company Officers, Fire Service Managers, and City Managers/County Administrative		
Designed 101.	Officers and Planners	nu City Managers/County Au	minisuative
Description:	Designed to educate Chief Officers on the strategic planning	g process and why each of the	e steps is
•	critical for success. Although the process may be thought of		
	provide advice and tools to assist in the strategic planning p		
	consistent with critical elements of the accreditation process	s and its associated self-assess	sment manua
Prerequisites:	Fire Management 1		
Certification:	Chief Officer 40		
Class Size: Restrictions:	40 None		
Restrictions.	REQUIRED STUDENT MATERIALS	EDITION	VENDOR
Chief Eire Offi	cer's Desk Reference (Optional)	2006	IB
	nt Strategic Planning: Creating Future Excellence	Second	PW
The Fire Chief		Sixth	PW
	REQUIRED INSTRUCTOR MATERIALS		
Chief Fire Offi	cer's Desk Reference (Optional)	2006	JB
	nt Strategic Planning: Creating Future Excellence	Second	PW
	loped Summative Test	Current	Instructo
The Fire Chief		Sixth	PW
The Fire Chief	s Handbook Study Guide (Optional)	Sixth	PW
	VENDORS		
Jones	and Bartlett Publishers (800-832-0034 x2)		ww.jbpub.co
V Penn'	Well Books/Fire Engineering (800-752-9764)	www.pennwellbooks	s.com/fire.ht
urse Content it 1: Strategic P Introduction/C Revisiting You Speed Plannin Strategic Plann Planning To Pl Understanding The Value of V Identifying the Developing the			40:00
Assessing the C Assessing the V Identifying the Creating Strate Creating the D Operational Pl Strategic Mana Cyclic Plannin	Challenges and Opportunities of the External Environment Weaknesses and Strengths of the Internal Environment Strategic Issues of the Department gies for Strategic Issues epartment's Ideal Future Through Proactive Futuring anning from a Strategic Perspective gement and Master Planning		



PO Box 944246, Sacramento CA 94244-2460

Со	rse: Fire Management 2E: Ethics a	and the Challenge of Leadership (2009	9)	CFSTES
	urs: 40			
Designed Descrip		icers, Staff Officers, and other Fire Ser will correlate personal core values ar	8	nical decisions
Descrip		ne participant will explore ethical and		
		nical dilemmas, and ethical decision-n		
		develop strategies for leading in publ		
		nities. The participant will use a varie		
		and critical thinking scenarios to expl	lore ethics and the cha	llenges of
Prerequi	leadership. i tes: None			
Certifica				
Class				
Restrict	ons: None			
	REQUIRED STUDE		EDITION	VENDORS
	e Officer's Desk Reference (Optiona	l)	2006	JB
· · ·	Development Studies		Fourth	PTK
<u>v</u>	al Decisions		2002	JIE
	Chief's Handbook		Sixth	PW
Ine Lead	er of the Future 2: Visions, Strategie		2006	J-B
	REQUIRED INSTRUC		2006	ID
	e Officer's Desk Reference (Optiona	I)	2006	JB Is structor
	-developed Summative Test Development Studies		Current Fourth	Instructor PTK
	al Decisions		2002	JIE
	Chief's Handbook		Sixth	PW
	Chief's Handbook Study Guide (Op	tional)	Sixth	PW
	er of the Future 2: Visions, Strategie		2006	J-B
		VENDORS		
JB	Jones and Bartlett Publishers (800-8	32-0034 x2)	W	vw.jbpub.com
J-B	Jossey-Bass		www.j	osseybass.com
JIE	Josephson Institute of Ethics			oninstitute.org
PTK	Phi Theta Kappa			ership.ptk.org/
PW	PennWell Books/Fire Engineering (8	800-752-9764)	www.pennwellbooks	s.com/fire.html

FIRE MANAGEMENT 2E COURSE OUTLINE

Course Objectives: To provide the student with...

- Information on correlating personal core values and characteristics to ethical decisions and behaviors.
- Ethical dilemmas and appropriate models for making effective ethical decisions.
- Information to define and discuss principle-centered leadership.
- Information to recognize the risks and rewards of ethical and principle-centered decision-making.
- Information to justify the importance of service as a foundational aspect of leadership.
- Information to recognize the challenges of leading in a dynamic and diverse community.
- Strategies for leading in a challenging environment.
- Information on how leaders contribute to the establishment of a high trust organizational culture.
- A personal leadership development plan.
- A method to evaluate leadership responsibility as it relates to ethics, values, and challenges within the public safety environment.

Unit 1: Course Introduction/Reflection

Overview of Course, Description and Course Objectives

Introductions (Facilitated Activity)

Course Components

Reflections on Previous Course Work and Journal Work



PO Box 944246, Sacramento CA 94244-2460

FIRE MANAGEMENT 2E COURSE OUTLINE

Unit 2: Ethics What are Ethics, Morality, Leadership and More? Personal Values/Ethical Behavior Why Be Ethical and the Advantages/Disadvantages? Why Study Ethics? Video Case Study: Cider House Rules Unit 3: Ethical Systems Thinking Ethically: A Framework for Moral Decision Making Ethics Awareness Inventory Video Case Study: Miss Ever's Boys - Part One Unit 4: Ethics and Decision Making Evolution of Ethical Decision-making: Kohlberg's Stages of Morality Ethical Choices: Kohlberg - Case Studies A Model for Making Moral Decisions - Scott Rae Video Case Study: Miss Ever's Boys - Part Two Ethical Models **Public Safety Scenarios** Video Case Study: Miss Ever's Boys - Part Three Unit 5: Ethics and Principled Leadership **Defining Leadership** Leadership Principles: Colin Powell's Rules Principle Centered Leadership Video Clip: FBI Academy: the Public Trust Code of Ethics Video Case Study: Crimson Tide Unit 6: Servant Leadership Understanding Servant Leadership Video Presentation: Gandhi or Radio Role Models and Servant Leadership Unit 7: the Challenges of Leadership Whom to Choose Video Presentation: Billy Budd The Ethical Test Developing Strategies for Leading in the Future Unit 8: Course Conclusion Personal Leadership Assessment Peer Review Leadership Shadow Presentations Community Leadership Involvement Presentations Leadership Program Self Assessment Leadership Development Plan Submission Instructor-developed Summative Test



Course	Fire Service Supervision: Increasing Personal Effectiveness		FSTEP
Hours			
Designed For	Company Officers or other individuals responsible for supervising personnel or managing programs and projects		
Description	This NFA hand-off course reviews basic skills and techniques that will assist the individual to improve personal effectiveness. Topics include managerial style and personal performance, time management, and personal professional development planning.		
Prerequisites	None		
Certification	None		
Class Size	40		
Restrictions	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manua 			NTIS
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guid 	2		NTIS
	VENDORS		
NTIS N	ational Technical Information Service (800-553-6847)		www.ntis.gov
FIRE	SERVICE SUPERVISION: INCREASING PERSONAL EFFECTIVENESS CO	OURSE OUTL	INE
 None 			



	Fire Service Supervision: Increasing Team Effectiveness		FSTEP
Hours:	16		
Designed For:	Company Officers or other individuals responsible for supervising p	personnel	
Description:	on: This NFA hand-off course is designed to meet the needs of fire service supervisors and program managers by focusing on improving the manager's skills in relating with others. Topics include motivating others, interpersonal communications, counseling, group dynamics, and conflict resolution.		
Prerequisites:	None		
Certification:	•		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 			NTIS
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guide 			NTIS
	VENDORS		
NTIS Nat	onal Technical Information Service (800-553-6847)		www.ntis.gov
			0
FIRE	SERVICE SUPERVISION: INCREASING TEAM EFFECTIVENESS COU	URSE OUTLIN	E
 None 			



Cour	se: Volunteer Fire Service Management		FSTEP	
Hou	rs: 16			
Designed F	or: Company Officers or other individuals responsible for supervising personn programs and projects	Company Officers or other individuals responsible for supervising personnel or managing programs and projects		
Descriptio	This NFA hand-off course provides participants with an overview and introduction to managing within a volunteer service environment. Discussion includes topics of management principles and techniques, planning, organizing, controlling, problem solving, motivating, and much more.			
Prerequisit				
Certificatio	n: None	None		
Class Si	ze: 40			
Restrictio	ns: None			
	REQUIRED STUDENT MATERIALS EDIT	ION	VENDORS	
 Student Man 	Jal		NTIS	
	REQUIRED INSTRUCTOR MATERIALS			
Instructor Gu	ide		NTIS	
	VENDORS			
NTIS	National Technical Information Service (800-553-6847)	W	www.ntis.gov	
·				
	VOLUNTEER FIRE SERVICE MANAGEMENT COURSE OUTLINE			
 None 				



PO Box 944246, Sacramento CA 94244-2460

		MECH	ANIC COURSE	
Cours	e: Fire Mechanic 1: Fire Pumps and Accessories (2004)		CFSTES	
Hour	s: 36			
Designed Fo	r: Entry-level fire apparatus mechanics			
Description	n: This course provides the fire apparatus mechanic with the sk test, and troubleshoot fire pumps and accessories.	This course provides the fire apparatus mechanic with the skills necessary to maintain, overhaul, test, and troubleshoot fire pumps and accessories.		
Prerequisite	s: None			
Certificatio	n: Fire Mechanic I	Fire Mechanic I		
Class Siz	e: 40			
Restriction	s: This course is scheduled and taught by Fire Mechanic Acade	my staff only.		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Manu 	al		CFMA	
	REQUIRED INSTRUCTOR MATERIALS			
 Instructor Gui 	de		CFMA	
	VENDORS			
CFMA (California Fire Mechanics Association (916-727-7019)	WWW	.cafiremech.com	

FIRE MECHANIC 1 COURSE OUTLINE

- The principles and theories associated with the maintenance and operational pump testing required for fire apparatus and equipment.
- An opportunity to troubleshoot.
- An opportunity to receive specialized and on-the-job training.

Course Content	
Pump Identification	
Theory	
Demonstration and Lab	
Troubleshooting	
Testing	



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Mechanic 2A: Fire Apparatus Electrical Systems (2004)		CFSTES
Hours:	36		
Designed For:	Advanced-level fire apparatus mechanics		
Description:	This course includes topics on the theory, operation, and maintena currently being used in fire apparatus.	nce of electrica	systems
Prerequisites:	Fire Mechanic 1		
Certification:	Fire Mechanic II		
Class Size:	40		
Restrictions:	This course is scheduled and taught by Fire Mechanic Academy sta	iff only.	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 			CFMA
REQUIRED INSTRUCTOR MATERIALS			
 Instructor Guide 			CFMA
VENDORS			

CFMA	California Fire Mechanics Association (916-727-7019)	www.cafiremech.com

FIRE MECHANIC 2A COURSE OUTLINE

Course Objectives: To provide the student with...

 Theory, operation, and maintenance information on electrical systems currently being used in ambulance and fire apparatus.

• The principles and theories associated with maintenance required for ambulance and fire apparatus and equipment.

• An opportunity to receive specialized and on-the-job training.

Course Content	
Theory of Electron Flow, Principles of Current, Voltage, Resistance, Ohm's Law; Series,	
Parallel, Series/Parallel Circuits, Principles of Diodes and Transistors	
Design and Construction, Ratings, Charging, Evaluation/Selection and Testing of Batteries	
Design and Construction, Voltmeter, Ammeter, Ohmmeter, Application, Reading and	
Ratings of Meters	
Design and Operation, Heavy Duty Ratings, Pulley and Belt Loop, Load Requirements	
And Diagnosis of Alternators	
Design and Operation, Switches and Solenoids, Mounting, Heavy Duty Applications,	
And Diagnosis of Cranking Motors	
Load Analysis, CCA Wiring, Fusing, Looming, Installation, and Repair Techniques	
Of Electrical Systems	
Failure Analysis, Diagnostic Approaches, Computer Learn and Resets, Computer	
Wake-Up Memory and Instrumentation of Component Systems	
Testing	



PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Mechanic 2B: Allison Transmissions (2004)		CFSTES
Hours:	36		
Designed For:	Advanced-level fire apparatus mechanics		
Description:	This course covers introduction, general construction, and ap	plication of Allison T	ransmission.
	Hands-on activities include complete tear down, subassembl and complete transmission rebuild. Troubleshooting and mai		
Prerequisites:	Fire Mechanic 1		
Certification:	Fire Mechanic II		
Class Size:	40		
Restrictions:	This course is scheduled and taught by Fire Mechanic Acade	my staff only.	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 			CFMA
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guide 			CFMA
	VENDORS		
CEMA Cal	ifornia Fire Mechanics Association (916-727-7019)	WWW	.cafiremech.com

FIRE MECHANIC 2B COURSE OUTLINE

- Information on the application and general construction of the Allison transmission.
- Hands-on training in complete transmission teardown and rebuild, subassembly tear down, hydraulics, power flows, troubleshooting, parts, and maintenance procedures.
- The principles and theories associated with maintenance required for fire apparatus and equipment.
- An opportunity to receive specialized and on-the-job training...

Course Content	
Introduction and Application	
General Construction	
Transmission Teardown	
Torque Converter	
Subassembly Teardown	
Subassembly Transmission	
Power Flows	
Valve Body Teardown and Rebuild	
Hydraulics	6:00
Complete Transmission Rebuild	
Maintenance, Troubleshooting, Parts, and Review	



PO Box 944246, Sacramento CA 94244-2460

Cour	se: Fire Mechanic 3A: Ambulance Service and Maintenance (2004)		CFSTES
Ηοι	rs: 36		
Designed F	or: Advanced-level mechanics		
Description	on: This course covers service and maintenance techniques used to m steering suspension, brakes, chassis, oxygen system, suction syste heating systems of an ambulance.	0,	,
Prerequisit	es: Fire Mechanic 1		
Certification	on: Fire Mechanic III		
Class Si	ze: 40		
Restrictio	ns: This course is scheduled and taught by Fire Mechanic Academy s	aff only.	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Man 	ual		CFMA
	REQUIRED INSTRUCTOR MATERIALS		
Instructor Guide CFMA		CFMA	
	VENDORS		
CFMA	California Fire Mechanics Association (916-727-7019)	www.	cafiremech.com

FIRE MECHANIC 3A COURSE OUTLINE

- Information on the service and maintenance requirements for ambulances.
- The principles and theories of maintenance requirements for ambulances.
- An opportunity for on-the-job specialized and maintenance training.

Course Content	
Engine/Drive Train	
Steering/Suspension	
Chassis	
Brakes/Secondary Braking	
Heating/Air Conditioning	
Oxygen	
Suction	
Ventilation	
Decontamination/Biohazards	
Testing	



PO Box 944246, Sacramento CA 94244-2460

Cour	se: Fire Mechanic 3B: Aerial Apparatus (2004)		CFSTES
Ηοι	irs: 36		
Designed F	or: Advanced-level fire apparatus mechanics		
Descripti	on: This course covers physical principles of construction, testing, and aerial devices commonly found in the fire service.	preventative ma	aintenance of
Prerequisit	es: Fire Mechanic 1		
Certificati	on: Fire Mechanic III		
Class Si	ze: 40		
Restrictio	ns: This course is scheduled and taught by Fire Mechanic Academy st	aff only.	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Man 	ual		CFMA
	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS
 Instructor Gu 	iide		CFMA
VENDORS			
CFMA	California Fire Mechanics Association (916-727-7019)	www.	cafiremech.com

FIRE MECHANIC 3B COURSE OUTLINE

- The physical principles of construction, testing, and preventative maintenance of aerial devices commonly found in the fire service.
- The principles and theories associated with maintenance testing required for fire apparatus and equipment.
- An opportunity for on-the-job specialized and maintenance training.

Course Content	
Interlock Systems	
Nondestructive/Annual Testing	
Hydraulic Theory	
Design and Maintenance	
Chassis Inspection	
Testing	



PO Box 944246, Sacramento CA 94244-2460

		PREVEN	ITION COURSES
Cour Hou Designed F	irs: 40		
Description		This course provides a broad, technical overview of fire prevention codes and ordinances,	
Prerequisit	es: None		
Certification	on: Fire Officer Fire Prevention Officer Public Education Officer I	Fire Prevention Officer	
Class Si	ze: 40		
Restrictio	ns: None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 California Fir 	e Code	2007	ICC
 Fire Inspection 	on and Code Enforcement	Sixth	CFCA or FPP
 Student Supp 	lement	2008 SFT	
	REQUIRED INSTRUCTOR MATERIALS		
 California Fir 	e Code	2007	ICC
 Certification 	Exam	2008 SFT	
 Fire Inspection 	on and Code Enforcement	Sixth	CFCA or FPP
 Instructor Gu 	ide	2008	SFT
 PowerPoint S 	Slides on CD-ROM (Optional)	2008	SFT
	VENDORS		
CFCA	California Fire Chief's Association Bookstore (800-733-2314)	W	ww.calchiefs.org
ICC	International Code Council (800-284-4406)		www.iccsafe.org
FPP	Fire Protection Publications (800-654-4055)		www.ifsta.org
SFT	State Fire Training Bookstore (916-445-8158)	ht	tp://sft.fire.ca.gov

FIRE PREVENTION 1A COURSE OUTLINE

- The responsibility and authority for fire prevention inspections and related activities.
- The principles and procedures used to correct fire hazards.
- Information on occupancy classifications and types of construction.
- The basic means of egress requirements.
- The operational readiness of fire rated assemblies.
- General fire safety provisions.
- Information on public relations as it relates to fire prevention inspections.

Course Content	
Unit 1: Responsibility and Authority	
Orientation and Administration	
Terminology Relating To Responsibility and Authority	0:30
Legally Established Responsibilities and Empowerment	
Legal Responsibilities of the Inspector	
Understanding, Reading, and Using the CFC	
Historical Incidents and Their Affect On the Fire Code	
Unit 2: Occupancy Classification and Building Construction	
Terminology Relating To Occupancy Classification and Construction	
Relationship of Fire Protection To Building Construction and Occupancy	
Classification of Occupancies	
Unit 3: Egress Requirements	
Terminology Relating To Egress Requirements	0:30
Determining Adequate Means of Egress	
Means of Egress Requirements	
Maintaining the Egress System	1:00



PO Box 944246, Sacramento CA 94244-2460

FIRE PREVENTION 1A COURSE OUTLINE

Unit 4: Fire-Resistive Assemblies	
Terminology Relating To Fire-Resistive Assemblies	
Types of Classes and Roof Coverings	
Purpose and Location of Fire-Resistance-Rated Building Construction and Components	
Fire Doors and Windows	0:30
Unit 5: General Fire Safety Provisions	
General Fire Safety	1:15
Fire Safety Requirements For Decorative Materials and Furnishings	
Fire Drills and Emergency Evacuation Plans	0:30
High-piled Storage Requirements	
Electrical Fire Hazards and Safety Devices	0:45
Unit 6: Principles and Procedures for Fire Inspections	
Factors Relating To Life Safety	
Conducting A Life Safety Assessment	
General Fire Inspection Practices	1:15
Procedures For Correcting Fire Hazards and Modifications of Requirements	
Handling Fire Prevention Complaints	0:30
Unit Tests	
Certification Exam	



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

Course:	Fire Prevention 1B: Inspection of Fire Protection Systems/Special H	lazards Bridge (2	009) CFSTES
Hours:	40		
Designed For:	Fire prevention, suppression, public education, and fire investigation personnel		
Description :	This course will provide fire prevention professionals with the base level of knowledge necessary to inspect fire protection systems and special hazards.		
Prerequisites:	Fire Prevention 1A		
Certification:	Fire Officer		
	Fire Prevention Officer		
	Public Education Officer I		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Colifornia Fire Co		2007	100

	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Californi 	a Fire Code	2007	ICC	
 Fire Insp 	ection and Code Enforcement	Sixth	CFCA or FPP	
 Student S 	Supplement	2009	SFT	
	REQUIRED INSTRUCTOR MATERIALS			
 Californi 	a Fire Code	2007	ICC	
 Certifica 	ation Exam	2009	2009 SFT	
 Fire Insp 	ection and Code Enforcement	Sixth	Sixth CFCA or FPP	
 Instructo 	r Guide	2009	2009 SFT	
 PowerPo 	int Slides on CD-ROM (Optional)	2009 SFT		
	VENDORS			
CFCA	California Fire Chief's Association Bookstore (800-733-2314) www.calchiefs.org			
ICC	International Code Council (800-284-4406)	www.iccsafe.org		
FPP	Fire Protection Publications (800-654-4055)	www.ifsta.org		
SFT	State Fire Training Bookstore (916-445-8158)	http://sft.fire.ca.gov		

FIRE PREVENTION 1B COURSE OUTLINE

Course Objectives: To provide the student with...

- Information to identify the classification, properties, labeling, incidental storage, handling, and use of flammable and combustible liquids and gases.
- Information to identify the classification, properties, labeling, incidental storage, handling, and use of hazardous
 materials, other than flammable and combustible liquids and gases.
- The principles and operational readiness of portable fire extinguishers.
- The principles and operational readiness of special fixed fire suppression systems.
- The principles and operational readiness of detection and alarm systems.
- The principles and operational readiness of sprinkler systems and fire pumps.
- The principles and operational readiness of standpipe systems.

Course Content	
Unit 1: Introduction to Fire Prevention 1B	
Orientation and Administration	
Unit 2: Flammable and Combustible Liquids and Gases	
Flammable and Combustible Liquids Terms and Characteristics	1:00
Acceptable Containers for Flammable and Combustible Liquids	0:30
Introduction to Material Safety Data Sheets	0:30
Inside Storage of Flammable and Combustible Liquids	
Outside Storage of Flammable and Combustible Liquids	1:00
Dispensing, Using, Mixing, and Handling Flammable and Combustible Liquids	1:30
Properties of Compressed, Cryogenic, and Liquefied Gases	
Fire Hazards of Compressed and Liquefied Gases	
Procedures for Inspecting Motor Vehicle Dispensing Stations	0:30
Procedures for Inspecting LPG Occupancies	0:30
Procedures for Inspecting Flammable Finish Application Occupancies	
Methods for Controlling Ignition Sources and Explosive Atmospheres	1:00



PO Box 944246, Sacramento CA 94244-2460

FIRE PREVENTION 1B COURSE OUTLINE

Unit 3: Hazardous Materials and Explosives	
Hazardous Materials Terms and Characteristics	
Sources of Technical Information on Hazardous Materials	0:30
Regulating Hazardous Materials	
Introduction to Hazardous Materials Management Plan (HMMP)	0:15
Storage and Transfer Practices of Compressed and Liquefied Gases	
Hazards of Explosives and Fireworks	
Storage of Hazardous Materials	
NFPA 704 Identification Systems	0:15
Classification By Hazard	
Inspection of the Incidental Use, Handling, and Storage of Hazardous Materials	
Unit 4: Portable Fire Extinguishers	
Portable Fire Extinguisher Classifications	
Portable Fire Extinguisher Placement	0:30
Procedures for Inspecting Portable Fire Extinguishers	0:30
Unit 5: Special Fixed Fire Suppression Systems	
Fixed Fire Protection Systems	
Procedures for Inspecting Fixed Fire Protection Systems	
Procedures for Inspecting Commercial Cooking Equipment	0:30
Unit 6: Detection and Alarm Systems	
Detection and Alarm Systems Terms and Characteristics	0:30
Fire Alarm System Components	0:45
Fire Alarm Signaling System Classifications	0:30
Procedures for Inspecting Fire Alarm Systems	0:30
CFC Requirements for Fire Alarm Systems	0:15
Unit 7: Water-Based Fire Protection Systems	
Water-Based Fire Protection Systems Terms and Characteristics	
Water Supply Systems	0:30
Sprinkler Systems Benefits, Limitations, and Design	0:30
Types of Sprinkler Systems	
Sprinkler System Components	
Procedures for Inspecting Sprinkler Systems	
Procedures for Conducting Tests on Wet-Pipe Sprinkler Systems	0:30
Procedures for Conducting Tests on Dry-Pipe Sprinkler Systems	
Characteristics of Standpipe Systems	
Procedures for Inspecting Standpipe Systems	
Unit Tests	
Certification Exam	



SFT

COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Interim List for Fire Prevention Courses

Course:	Fire Prevention 1C: Flammable Liquids and Gases (1987)		CFSTES	
Hours:	40			
Designed For:	Fire prevention, suppression, public education, and fire investigat	ion personnel		
Description:	This course focuses the participants on the special hazards associated with flammable and combustible liquids and gases. Some topics of discussion include bulk storage and handling, transportation of flammable gases and liquids, and more.			
Prerequisites:	Fire Prevention 1A, Fire Prevention 1B			
Certification :	Fire Prevention Officer			
a l a t				
Class Size:	40			
Class Size: Restrictions:	40 None			
		EDITION	VENDORS	
	None	EDITION 1987 <mark>*</mark>	VENDORS SFT	
Restrictions:	None			
Restrictions:	None REQUIRED STUDENT MATERIALS			

*Instructor must update or develop until new documents are available

VENDORS State Fire Training Bookstore (916-445-8158)

http://sft.fire.ca.gov

FIRE PREVENTION 1C COURSE OUTLINE

Course Objectives: To provide the student with...

- To identify the physical properties of flammable liquids and gases, combustible liquids, and compressed gases.
- To provide information relative to the storage and handling of flammable liquids and gases.
- To provide information regarding the installation of storage tanks and containers for flammable liquids and gases.
- To identify the techniques for fire extinguishment of flammable liquids and gases.
- To provide information relative to the DOT labeling and placarding for flammable liquids and gases.
- To identify those regulations governing the transportation of flammable liquids and gases.
- To identify procedures for controlling compressed and liquefied gas leaks.
- To identify procedures relative to the transfer of compressed liquefied gases.

Course Content	
Introduction	
Properties of Flammable and Combustible Liquids	1:30
Classes of Flammable and Combustible Liquids	1:00
Toxic and Reactive Liquids	1:00
Fire Hazards of Flammable and Combustible Liquids	1:00
Regulations and Hazards Associated with the Transfer for Flammable and Combustible	
Liquids	
Acceptable Containers for Flammable and Combustible Liquids	1:00
Hazards and Regulations Associated with Finishing Processes Involving Flammable and	
Combustible Liquids	1:30
Control of Ignition Sources and Explosive Atmospheres	
Installation Practices for Underground Storage Tanks	
Installation Practices for Piping and Valves of Underground Storage Tanks	1:30
Venting Procedures and Devices Installed on Underground Storage Tanks for Flammable	
and Combustible Liquids	1:30
Installation Practices for Aboveground Storage Tanks	
Installation Practices for Piping and Valves of Aboveground Storage Tanks	1:30
Venting Procedures for Aboveground Storage Tanks for Flammable and Combustible Liquids	
Installation Practices for Inside Storage Tanks	1:30
Venting Procedures for Inside Storage Tanks for Flammable and Combustible Liquids	
Regulations Associated with Outside Container Storage of Flammable and Combustible	
Liquids	1:30



PO Box 944246, Sacramento CA 94244-2460

FIRE PREVENTION 1C COURSE OUTLINE

Recommended Practices and Procedures for Inside Storage of Flammable and Combustible	
Liquids	1:30
Requirements for Inside Storage of Flammable and Combustible Liquids	1:30
Techniques of Flammable and Combustible Liquid Fire Extinguishment	1:00
Requirements for Portable Fire Extinguishers in Areas Containing Flammable and	
Combustible Liquids	1:00
Labeling and Placarding Systems for Flammable and Combustible Liquids	
Regulations Governing the Transportation of Flammable and Combustible Liquids	1:30
Properties of Compressed and Liquefied Gases	1:30
Fire Hazards of Compressed and Liquefied Gases	1:00
Storage and Transfer Practices for Compressed and Liquefied Gases	1:00
Fire Extinguishment Practices for Compressed and Liquefied Gases	1:00
Requirements for Portable Fire Extinguishers in Areas Containing Compressed and	
Liquefied Gases	1:00
Instructor-developed Summative Test	1:00



PO Box 944246, Sacramento CA 94244-2460

Interim List for Fire Prevention Courses

	Interim List	tor Fire Preve	ntion Cours
Course:	Fire Prevention 2A: Fire Protection Systems and Building Compo	onents (1993)	CFSTE
Hours:	40		
Designed For:	Fire prevention officials and allied safety professionals		
Description:	This course provides the information on laws and regulations pertaining to systems, description,		
	installations, and problems relating to fire protection systems. To	pics of discussion	include smoke
	and fire detectors, fire alarm equipment, building components, a	ssemblies and dev	vices, fire doors
	and basic hydraulic calculations for sprinkler systems.		
Prerequisites:	Fire Prevention 1A, Fire Prevention 1B		
Certification :	Fire Protection Specialist		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Student Manual		1994 <mark>*</mark>	SFT
	REQUIRED INSTRUCTOR MATERIALS		
Instructor Guide		Current*	Instructor
Instructor-develo	ped Summative Test	Current*	Instructor
FT Stat	VENDORS e Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.go
I			. 0
	FIRE PREVENTION 2A COURSE OUTLINE		
	Fo provide the student with		
	ne laws and regulations pertaining to fire protection and detection	systems.	
	ne types, installation, and problems relating to these systems.		
	ontent		
Fire Flow Demar	nds		
Water Systems			
Hydrant Constru			
Sprinkler System			
	nguisher Maintenance		
Fixed Fire Exting			
	Flame Detection Devices		
Alarm Systems a	nd Components		
Fire Doors	None of the Fire Hannels		
	Correcting Fire Hazards		
Special Fire-Rela	ted Building Components		

Special Fire-Related Building Components

Fire and Fire Spread

Instructor-developed Summative Test



PO Box 944246, Sacramento CA 94244-2460

Interim List for Fire Prevention Courses

Course:	Fire Prevention 2B: Interpreting the UBC and CCR (1992)		CFSTES
Hours	40		CISTES
Designed For:	Fire prevention personnel and allied fire safety professionals		
Description:			
Prerequisites:	Fire Prevention 1A, Fire Prevention 1B		
Certification:	Fire Protection Specialist		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
California Buildi	ng Code	2007	ICC
 Introduction to the second seco	ne Uniform Building Code	2007	ICC
 Student Supplem 	ent	1993 <mark>*</mark>	SFT
 Title 19 		Current	WG
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guide 		Current*	Instructor
 Instructor-development 	oped Summative Test	Current*	Instructor

*Instructor must update or develop until new documents are available

VENDORS		
ICC	International Code Council (800-284-4406)	www.iccsafe.org
SFT	State Fire Training Bookstore (916-445-8158)	http://sft.fire.ca.gov
WG	West Group (800-888-3600)	www.barclaysccr.com

FIRE PREVENTION 2B COURSE OUTLINE

Course Objectives: To provide the student with...

- Extensive and in-depth information about the fire and life safety standards of buildings as they relate to the UBC and Title 19 and 24
- Information on types of construction, occupancy classifications, egress, and interior finishes.



PO Box 944246, Sacramento CA 94244-2460

Interim List for Fire Prevention Courses

Course: Hours:	Fire Prevention 2C: Special Hazard Occupancies (1994) 40		CFSTES
Designed For:	Fire prevention officials and allied safety professionals		
Description:			
Prerequisites:			
Certification:	n: Fire Protection Specialist		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Fireworks Laws 	and Regulations	1992	OSFM/FE
 Student Suppler 	nent	1994 <mark>*</mark>	SFT
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guide 	ê	Current*	Instructor
 Instructor-devel 	oped Summative Test	Current*	Instructor

*Instructor must update or develop until new documents are available

VENDORS			
OSFM/FE	OSFM/Fire Engineering (916-445-8373)	osfm.fire.ca.gov/fireworks.html	
SFT	State Fire Training Bookstore (916-445-8158)	http://sft.fire.ca.gov	

FIRE PREVENTION 2C COURSE OUTLINE

Course Objectives: To provide the student with...

 Information on special fire prevention challenges: industrial ovens, cleaning and finishing processes, welding, refrigeration systems, and medical gases.

Basic Fire Hazard Identification
Hazardous Materials Storage, Handling and Use
Laboratory Occupancies
Finishing and Cleaning Processes
Chemical Processing Equipment
Solvent Extraction and Recovery
Oil Quenching and Salt Baths
Pesticides
Flammable Gas Hazards
Heat Processing Hazards and Protection
Combustible Dusts Hazards
Multiple Hazard Occupancies
Explosives and Firearms
Instructor-developed Summative Test



PO Box 944246, Sacramento CA 94244-2460

Interim List for Fire Prevention Courses

Course:	Fire Prevention 3A: Hydraulic Sprinkler Calculations (1995)		CFST
Hours:	40		
Designed For:	Fire prevention officials and plan checkers		
Description:			
	calculated sprinkler system. Participants will learn and practice w	rith the various m	ethods used to
D	perform hydraulic calculations.		
Prerequisites:	Fire Prevention 1A, Fire Prevention 1B High School Algebra or College Math		
Certification :	Plans Examiner		
Class Size:	40		
Restrictions:	None		
Restrictions	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Student Manual		Current*	Instructor
	REQUIRED INSTRUCTOR MATERIALS		
Instructor Guide		Current*	Instructor
	oped Summative Test	Current*	Instructor
Stat	*Instructor must develop until documents are availab VENDORS te Fire Training Bookstore (916-445-8158)		p://sft.fire.ca.g
Г Stat	VENDORS te Fire Training Bookstore (916-445-8158)		p://sft.fire.ca.ɛ
	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE		p://sft.fire.ca.ɛ
urse Objectives: 1	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with	htt	
urse Objectives: 1 Information and a	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content	htt ed sprinkler syste	m.
irse Objectives: 1 Information and a dentify Course C Concepts of Hyd	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate	htt ed sprinkler syste	m.
irse Objectives: 1 Information and a Identify Course C Concepts of Hyd Glossary of Term System Piping an	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems and Definitions	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a dentify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems and Definitions https://www.colspan="2">Hotomore	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of 0	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems and Definitions of Fittings Occupancies	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of O Allowable Head	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems ns and Definitions Occupancies Coverage	htt ed sprinkler syste	m.
Irse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of C Allowable Head Most Remote Are	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems ns and Definitions Occupancies Coverage	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of C Allowable Head Most Remote Are K Factor	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems ns and Definitions Occupancies Coverage ea	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of C Allowable Head Most Remote Are K Factor Minimum and He	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems ns and Definitions Occupancies Coverage	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of C Allowable Head Most Remote Are K Factor Minimum and He Friction Loss	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems ns and Definitions of Fittings Occupancies Coverage ea lead Pressure and Flow	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of C Allowable Head Most Remote Are K Factor Minimum and Ha Friction Loss Hydraulic Calcul	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems ns and Definitions nd Fittings Occupancies Coverage ea lead Pressure and Flow lation	htt ed sprinkler syste	m.
urse Objectives: 1 Information and a identify Course C Concepts of Hyd Glossary of Term System Piping an Water Supply Classification of C Allowable Head Most Remote Are K Factor Minimum and H Friction Loss Hydraulic Calcul Trees, Loops and Advanced Conce	VENDORS te Fire Training Bookstore (916-445-8158) FIRE PREVENTION 3A COURSE OUTLINE To provide the student with analysis of the functions and capabilities of a hydraulically calculate Content draulics In Fire Protection Systems ns and Definitions nd Fittings Occupancies Coverage ea lead Pressure and Flow lation d Grids	htt ed sprinkler syste	



PO Box 944246, Sacramento CA 94244-2460

Interim List for Fire Prevention Courses

		List for the Fleve	Courses
Course:	Fire Prevention 3B: Plan Review (1994)		CFSTES
Hours	40		
Designed For:	Fire prevention officials and allied professionals responsibl		
Description:	This course provides hands-on training. Topics include coo		
	site-plan review, building construction and characteristics,		
	occupancies, commercial buildings, care facilities, drinking	g/dining facilities, shopp	ing malls, and
	high-rise buildings.		
Prerequisites:	Fire Prevention 2B		
Certification:	Plans Examiner		
Class Size:	40		
Restrictions:	None		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 Student Manual 		Current <mark>*</mark>	Instructor
	REQUIRED INSTRUCTOR MATERIALS		
 Instructor Guide 		Current <mark>*</mark>	Instructor
 Instructor-development 	oped Summative Test	Current*	Instructor
	*Instructor must develop until new documents ar	<mark>e available</mark>	
	VENDORS		
SFT Stat	e Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.gov
	FIRE PREVENTION 3B COURSE OUTLIN	IE	
Course Objectives: 7	To provide the student with		
 Hands-on trainin 	g for Plan Reviewers.		
	odes, standards, and local amendments.		
 Information on si 	te plan review, building construction, and fire protection eq	uipment.	
	lan review for various occupancy classifications.		
To identify Course C	Content		
	Plans and Plans Review		
	eets, Plans, Rules, Other Tools and Equipment		
Components of A			
Site Plan Review			
Location of Build	lings		
Accessibility			
Water Supply			
Terrain			
Plan Check Guid			
	Group B Occupancy		
	Group I Occupancy		
	of Day Care Center		
Plan Correction			
Instructor-develo	ped Summative Test		



PO Box 944246, Sacramento CA 94244-2460

Course:	Fireworks Enforcement/Special Effects		FSTEP
Hours:			
Designed For:			
Description:			
Prerequisites:	None		
Certification:	None		
Class Size:	40		
Restrictions:	This course is scheduled and taught by SFM Fire Eng	gineering staff only.	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS	EDITION	VENDORS
 None 			
	CONTACT		
OSFM/FE OS	FM/Fire Engineering (916-445-8373)	osfm.fire.ca.go	v/fireworks.html
	FIREWORKS ENFORCEMENT/SPECIAL EFFECTS	S COURSE OUTLINE	
 None 			



PO Box 944246, Sacramento CA 94244-2460

Course:	Motion Picture/Television Fire Safety Officer		FSTEP
Hours:	24		
Designed For:	Designed For: Fire personnel, special effects technicians, film production safety and stunt coordinators, line		
	producers, location managers, and film commissioners		
Description:	This course provides a basic knowledge of film production safety.		
	code permits, licensing, the role of the safety officer, fire safety ha		0 0
	generators, electrical cabling, set construction, studio vs. warehou		
	effects law and regulations, and stunt safety. This course incorpora		special effects
D	and stunt demonstrations. Guest speakers are also a part of the pro	gram.	
Prerequisites: Certification:	None		
Class Size:	None 40		
Restrictions:	This course is scheduled and taught by OSFM Fire Engineering sta	ff only	
Restrictions:			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
 None 			
	REQUIRED INSTRUCTOR MATERIALS		
 None 			
	CONTACT		
OSFM/FE OS	FM/Fire Engineering (916-445-8373)	osfm.fire.ca.go	v/fireworks.html
	MOTION PICTURE/TELEVISION FIRE SAFETY OFFICER COURS		
 None 			



=

COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

PUBLIC EDUCATION COURSES

Course:	Public Education 1: Systematic Planning and Communication Skills	(1989)	CFSTES	
Hours:	40			
Designed For:		Designed for personnel involved with preparing and delivering public education and information		
Description:	programs Key topics include: Systematic planning process for public education, use of CFIRS to analyze local fire problems, communication skills, program evaluation, working with the media, integrating programs into schools, gaining community support, fire safety for children, interviewing and counseling juvenile fire setters, creating and using audio/visual resources, and idea and resource sharing.			
Prerequisites:	None			
Certification:	Public Education Officer I			
Class Size:	40			
Restrictions:	Instructor-designed course may be substituted. A course outline and	d a copy of the s	student	
	materials you will be using must be submitted and approved by State Fire Training.			
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Manual 		1989	SFT	
REQUIRED INSTRUCTOR MATERIALS				
Certification Exam 1989 SFT			SFT	
Instructor Guide 1989 SFT			SFT	
VENDORS				
SFT Stat	e Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.gov	

PUBLIC EDUCATION 1 COURSE OUTLINE

Course Objectives: To provide the student with...

- The five step systematic planning process.
- An opportunity to improve communication skills through practice and oral presentations.
- Information to effectively use the available media in their geographic areas.
- Information to select, develop, organize, and use appropriate materials for fire prevention education.
- Information relative to individual value system development and interpersonal relationships.

40:00
1:30
1:00
0:30
1:30
0:30
0:30
23:00
3:00
1:30
1:00
0:45
0:45
3:30
1:00



PO Box 944246, Sacramento CA 94244-2460

TECHNICAL RESCUE COURSES

Cour Hor			FSTEP	
Designed F		tion		
Descripti		his course is an intensive hands-on training program that will prepare you to respond to confined		
Prerequisit Certificati Class Si	 space emergencies. This course of instruction prepare the student i and permit-required confined spaces, the hazards associated with p spaces, target industries and hazards, state and federal regulations, operation, and the roles and responsibilities of the rescue team. confined Space Rescue Awareness None 	n identifying co permit required components of and 1 Senior Inst d 1 Senior Instr d 1 Senior Instr d 1 Senior Instr	nfined spaces confined a rescue tructor uctor* uctor*	
Restrictio				
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Mar 	nual	2007	СМС	
	REQUIRED INSTRUCTOR MATERIALS			
Instructor Guide		2008	SFT	
Student Manual 2007 C		СМС		
VENDORS				
СМС	CMC Rescue (800-235-5741)		.cmcrescue.com	
SFT	State Fire Training Bookstore (916-445-8158)	htt	p://sft.fire.ca.gov	

CONFINED SPACE RESCUE TECHNICIAN COURSE OUTLINE

Course Objectives: To provide the student with...

- Information on regulations and standards for entry into confined spaces
- Information to identify confined spaces and permit-required confined spaces
- Information to identify the hazards associated with confined spaces
- Techniques to perform confined space rescue on incidents involving terrorism or weapons of mass destruction
- Information and techniques to select and use atmospheric monitoring equipment and the equipment necessary to control hazards in confined spaces
- Information and techniques to identify, select, and use personal protective equipment
- Information and techniques to use various types of victim removal and packaging systems
- Information and techniques to construct rope rescue systems for confined space rescue
- The information necessary to plan, organize, operate, and command at confined space rescue incidents
- The opportunity to apply the principles of confined space rescue through directed rescue scenarios

Course Content	:00
Drientation Module	
Course Introduction0	:15
Confined Space Identification1	:30
CAL-OSHA Regulations1	:00
Federal Regulation-CFR 1910. 1460	:00
Confined Space Hazards1	:30
Atmospheric Monitoring1	:00
Hazard Control	:00
Personal Protective Equipment0	:45
Phases of Confined Space Rescue	:30
Rescue Rope and Related Equipment1	:00
High Point Anchor Systems	
Communications	
Permitting Confined Spaces0	:30



PO Box 944246, Sacramento CA 94244-2460

CONFINED SPACE RESCUE TECHNICIAN COURSE OUTLINE

Skills Module	
Knots	
Anchor Systems	
RPM	
Belay Systems	
Raising Systems	
Rescuer and Victim Packaging	
Respiratory Protection	
Communication Systems	
Hazard Control	
Atmospheric Monitoring	
High Point Anchor Systems	
Scenarios	



PO Box 944246, Sacramento CA 94244-2460

CONFINED SPACE RESCUE TECHNICIAN ACCREDITED TRAINING SITE REQUIREMENTS

An accredited Confined Space Rescue Technician (CSRT) Training Site has facilities, structures, work areas, materials, props, tools, and equipment of adequate size, type, and quantity to fully and safely support the cognitive and psychomotor training required to deliver the CSRT curriculum.

SITE CAPACITY

A CSRT Training Site is evaluated on its ability to deliver the required training to a maximum of 36 students. Each capacity level represents the maximum number of students or squads that may be taught on the site at any given time. This maximum number will be determined based on the suitability of the site to safely train between 12 and 36 students. <u>One-squad Site</u>

- Supports the instruction for teaching the maximum of one (1) squad or twelve (12) students
- One (1) CSRT Primary Instructor is required for a student instructor ratio of 12:1
- One (1) CSRT Senior Instructor is required
- For one-squad sites, the Senior Instructor may also function as the Primary Instructor

Two-squad Site

- Supports the instruction for teaching the maximum of two (2) squads or twenty-four (24) students.
- One (1) CSRT Primary Instructor
- One (1) CSRT Senior Instructor are required for a student instructor ratio of 12:1
- For two-squad sites, the Senior Instructor may also function as a Primary Instructor

Three-squad Site

- Supports the instruction for teaching the maximum of three (3) squads or thirty-six (36) students.
- Three (3) CSRT Primary Instructors are required for a student instructor ratio of 12:1.
- One (1) CSRT Senior Instructor is required.

MINIMUM SITE REQUIREMENTS

The accredited CSRT Training Site assumes all responsibility, liability, and maintenance for the engineering design, strength, stability, and adequacy of all props, including anchor points and tie offs. The requesting agency further assumes all responsibility, liability, and maintenance for all tools, equipment, and supplies used at the site for the delivery of a CSRT class. This includes, but is not limited to, ladders, ropes, rescue hardware and software.

Facilities

- Classroom of adequate size and capability (including audiovisual equipment) to support classroom cognitive training.
- Wash areas.
- Bathrooms.
- Rehabilitation area.
- Safe and adequate parking.

Training Props

Aboveground Tank

Aboveground tank (minimum 8 feet high) with a vertical (top) entry through a portal of 18" to 30" and a horizontal (side) entry through a portal of 18" to 30".

Underground Vault

- While belowground vaults are preferred, it will be acceptable to place vaults at ground level and provide platforms to simulate ground level for placing tripods or other equipment on.
- Vertical drop from the entry point must be greater than 5 feet.

Tapered Cross Section

- An internal configuration of inwardly converging walls or a floor that slopes downward and tapers to a smaller cross section.
- Entry may be vertical or horizontal, but must be above the section that tapers downward.

Horizontal Pipe

- Below grade or aboveground pipes between 18" and 36" in diameter.
- A minimum of 25 feet of continuous pipe shall be provided with at least one 45-degree or 90-degree bend.

Lock-out/Tag-out

One or more of the above listed spaces shall include a lock-out/tag-out prop as part of the evolution.



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

Permit-required Confined Spaces

Minimum training prop requirements can be fulfilled by using actual permit-required confined spaces or representative spaces.

Opening Size

Г

- One portal of entry on any of the above props shall be less than 24".
- Opening size is determined by measuring the shorter side of the opening.

EQUIPMENT STANDARDS

The following is the minimum equipment required to deliver a CSRT course. As the class size increases, the amount of equipment must increase. Refer to ENDNOTES for additional information.

Confined Space Rescue Technician Equipment Standards	Up to 12 Students One scenario at a time	Each additional scenario run concurrently
Generator with fuel can	1	See Endnote A
Extension cord	1	See Endnote B
Atmospheric monitor	1 - See Endnote C	1 - See Endnote C
Ventilation fan with duct	1	1
Saddle vent with 90 degree elbow	1	N/A
SCBA	2	See Endnote D
Supplied air manifold	1	See Endnote E
Airline	200' - See Endnote F	See Endnote F
Supplied air respirator with escape cylinder	2	See Endnote G
Victim respirator	1 - See Endnote H	N/A
Breathing air	See Endnote I	See Endnote I
Hardline communication system	1 - See Endnote J	N/A
Portable radio	2	N/A
Commercially available tripod	1 - See Endnote K	See Endnote L
Commercially available cable winch	1	See Endnote M
Commercially available 4:1 pre-rig	1	N/A
SKED stretcher or equivalent	1	N/A
Backboard	1	N/A
LSP half-back or equivalent	1	N/A
Spreader bar	1	N/A
Basket stretcher	1	N/A
Wristlets	1 set	N/A
Class III harness	2	2
Entrant light source	2	2
Personal alert device	2	N/A
Edge protection	1 - See Endnote N	See Endnote N
Pulley (one or more must be prusik-minding)	6	2
Double sheave pulley	2	N/A
Friction device (i.e., brake bar rack, figure eight descender)	1	N/A
1/2" static kernmantle rope with rope bag, 150 feet (min.)	3 - See Endnote O	3 - See Endnote O
8mm prusik loop, short, 57"	5	5
8mm prusik loop, long, 70"	5	5
1" tubular webbing, 5' – green	10	10
1" tubular webbing, 12' – blue	10	10
1" tubular webbing, 15' – yellow	10	10
1" tubular webbing, 20' – orange	10	10
Carabiners, large steel locking	20	20
Fire service ground ladder	2	N/A
Mask cleaning materials	See Endnote P	N/A
Clipboard	1	1
Sample entry permit forms for each scenario	1	1
Lock-out/Tag-out kit	1	N/A



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

ENDNOTES

- A. One (1) generator is required for each scenario. If there is a readily available power supply, an additional generator would not be needed.
- B. As needed to supply power to necessary equipment.
- C. A minimum of one (1) atmospheric monitor is required for each scenario. Four (4) gas monitors are recommended, but separate monitors that detect O₂ levels, flammable gases, and toxic gases that would be expected in the spaces to be entered would suffice. One (1) monitor should have a pump and extension hose for pre-entry assessment. A second monitor can be a diffusion type for the entry team.
- D. Students can be required to supply their own.
- E. Two scenario course One (1) supplied air manifold and two (2) SCBAs. Three scenario course – Two (2) supplied air manifolds and two (2) SCBAs.
- F. 200 feet is the minimum. Additional airlines of sufficient length for the entry team and back-up team may be required for additional scenarios.
- G. None needed if SCBAs are used for the second or third scenario.
- H. This can be a supplied air system, emergency escape breathing apparatus (EEBA) or an SCBA.
- I. Enough Grade "D" Breathing Air must be available to run the required scenarios. This can be supplied by a compressor with back-up cylinders or by having enough air cylinders and/or a refill capability.
- J. The hardline communication system should accommodate the attendant and entrants.
- K. The tripod shall have a minimum breaking strength of 5,000 pounds to meet OSHA requirements. To better prepare the students for what they may encounter in the field, as many different high point anchors as possible should be available.
- L. If the second scenario is a vertical entry, a second high point anchor is required. A ladder system, a second tripod or davit, or other anchor point will work. If the second scenario is a horizontal entry, nothing is required.
- M. A rope retrieval system can be used for a second vertical entry.
- N. More may be required as situations warrant.
- O. Other lengths may be required by the scenarios. Low stretch kernmantle is also acceptable in place of static kernmantle.
- P. Mask cleaning materials must comply with Cal-OSHA GISO Section 5144.

SITE ACCREDITATION PROCESS

CSRT Training Sites will be inspected for compliance with the CSRT Training Site Minimum Site Requirements and Equipment Standards. A CSRT Training Site representative submits to the Chief of State Fire Training a written request for accreditation as a Conditional or Permanent CSRT Training Site. This request shall include:

- A detailed description of the site that lists the facilities, structures, work areas, materials, props, tools, and equipment available and ready for delivering a CSRT course.
- A CSRT Site Evaluation Form completed by a registered CSRT Senior Instructor.

State Fire Training staff, authorized representative, and/or a registered CSRT Senior Instructor who is not affiliated with the site will conduct an inspection of the CSRT Training Site while operating under the direction of the Chief of State Fire Training.

Any discrepancies or deficiencies will be documented and discussed with the site representative at the time of the inspection. Once all discrepancies and deficiencies (if any) have been completed, validated, and verified by State Fire Training staff or authorized representative, the Chief of State Fire Training will notify the CSRT representative of their status as either an approved conditional or permanent site.



PO Box 944246, Sacramento CA 94244-2460

Course:	Rescue Systems 1: Basic Rescue Skills (2009)		CFSTES	
Hours:	40			
Designed For:	All emergency response personnel			
Description :				
Prerequisites:	Fire Fighter I or equivalent training, Low Angle Rope Rescue Oper	ational		
Certification:				
Class Size:	Student/instructor ratio: 12:1			
	48 student maximum: Four-module site with 4 Primary Instructors	and 1 Senior In	structor	
	36 student maximum: Three-module site with 3 Primary Instructor	s and 1 Senior I	nstructor	
	24 student maximum: Two-module site with 2 Primary Instructors			
	12 student maximum: One-module site with 1 Primary Instructor			
Restrictions:	This course can only be delivered at an accredited SFT Rescue Tra	ining site.		
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS	
 Student Manual 		2009	SFT	
	REQUIRED INSTRUCTOR MATERIALS			
 Instructor Mater 	als on disk (PowerPoint Slides included)	2009	SFT	
 Student Manual 	 Student Manual 2009 SFT 		SFT	
	VENDORS			
SFT	State Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.gov	

RESCUE SYSTEMS 1 COURSE SYLLABUS

Course Objectives: To provide the student with...

- Techniques to operate safely when working around the structural collapse of light frame buildings
- Information on the potential hazards associated with rescue operations
- An opportunity to build on skills acquired in Low Angle Rope Rescue Operational training
- Information and techniques for lifting and moving heavy objects
- Information and techniques to break or breach building components to access a victim(s)
- Information and techniques to shore and stabilize building components

Terminal Learning Objective (TLO): The student will be familiar with the requirements for the California Urban Search and Rescue (US&R) Basic and Light Operational Levels. The manipulative portion of the course concentrates on techniques to operate safely and effectively at structural collapse incidents involving the collapse or failure of light frame construction and basic rope rescue situations. The course uses the most innovative and progressive procedures being employed today, while maximizing rescue operation efficiency with minimal equipment and personnel. The Urban Search and Rescue Operational System Description includes; four different levels of operational capability, training, and equipment. Additional urban search and rescue multidisciplinary resources are also identified. The document uses the Incident Command System (ICS) to apply common terminology and resource management practices to provide supervision and control of essential functions at incidents that involve technically demanding rescue operations.

Enabling Learning Objectives (ELO):

- 1. Describe the history and objectives of the Rescue Systems 1 course.
- 2. Describe the California Urban Search and Rescue System.
- 3. Describe the relevant components of the ICS-US&R 120-1 Operational System.

4. Identify the five general construction categories.



PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 1 COURSE SYLLABUS

Enabling Learning Objectives (ELO):

- 1. Describe the four phases of structural collapse rescue.
- 2. Describe the checklist for the management of a structural collapse incident.
- 3. Describe US&R search.
- 4. Describe the search marking system.

Topic 1-3: US&R Safety and Medical Care for Victims......1:00

Terminal Learning Objective (TLO): The student will be familiar with a structural collapse incident that can cause multiple victim injuries in a variety of ways and locations. Using some basic medical care and safety procedures during the rescue operations will greatly assist in providing the most victims with best possible chance for recovery. Enabling Learning Objectives (ELO):

- 1. Describe the general hazards of a structural collapse.
- 2. Describe four general types of building construction hazards.
- 3. Describe four types of collapse patterns.
- 4. Describe the necessary personal protective equipment to use during an incident.
- 5. Identify the safety and medical considerations to take during an incident.
- 6. Describe the injuries associated with a structural collapse.
- 7. Describe basic infectious disease precautions to take during an incident.
- Topic 1-4: US&R Planning and Preparation1:00

Terminal Learning Objective (TLO): The student will be familiar with structural collapse incident organization and management. If an effective system to direct and control the large volume of personnel, equipment, and arriving resources is not in place, the person in charge will be overwhelmed. The order in which specific functions and tasks are performed will be vital to the effectiveness of mitigating the search and rescue structural collapse incident. Planning is probably the single most important function for an effective response to structural collapse incidents. Proper planning will identify the legal authority and responsibility for specific actions, develop a vulnerability and hazard assessment, and identify resources, response coordination, training, and budgetary needs.

Enabling Learning Objectives (ELO):

- 1. Describe the legal authority and responsibility for US&R.
- 2. Describe the development of a vulnerability and hazard assessment.
- 3. Identify resources for a US&R incident.
- 4. Describe effective response coordination.
- 5. Describe the training needed for local resources.
- 6. Describe budgetary needs during a US&R incident.
- 7. Describe the ICS, SEMS, and NIMS as they relate to a US&R incident.
- 8. Describe the communications necessary for a US&R incident.
- 9. Describe scene control.
- 10. Describe federal and state resources.

Topic 2-1: Rescue Knots and Hitches0:45 Terminal Learning Objective: The student will be able to identify and properly tie all rescue knots and hitches. Enabling Learning Objectives:

- 1. Demonstrate learned knowledge, skills, and abilities from prerequisite Low Angle Rope Rescue Operational (LARRO) course.
- 2. Demonstrate how to tie the six required knots.
- 3. Demonstrate how to tie the four Rescue Systems 1 required knots.

Topic 2-2: Anchor Systems......0:45

Terminal Learning Objective (TLO): The student will be aware of anchor selection and anchor system construction required for Rescue Systems 1 skills.

- Enabling Learning Objectives (ELO):
- 1. Describe considerations when selecting anchors.
- 2. Describe the types of anchors.
- 3. Demonstrate how to form a single loop, double loop, locking girth hitch (Lark's foot).
- 4. Demonstrate how to form a single and double loop basket sling (three bight).
- 5. Demonstrate how to form a single and multi-loop anchor sling.
- 6. Demonstrate how to form a wrap three pull two anchor sling.
- 7. Demonstrate sling anchor attachments: pretied.
- 8. Demonstrate single sling anchor attachments: open.





PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 1 COURSE SYLLABUS

RESCUE STSTEMS I COURSE STLLADUS
Topic 2-3: Rescuer and Ambulatory Victim Packaging0:30
Terminal Learning Objective (TLO): The student will be aware of how to properly package rescuers and victims to
safely and effectively complete a rope rescue operation.
Enabling Learning Objectives (ELO):
1. Describe rescue harnesses and rescuer packaging.
2. Demonstrate how to don a Class III harness.
3. Demonstrate how to package a victim in a commercial victim harness.
4. Demonstrate how to package a victim in a hasty pelvic harness.
Topic 2-4: System Attachments and Fall Restraint0:30
Terminal Learning Objective (TLO): The student will be aware of several methods of system attachments for rescuers
and victims.
Enabling Learning Objectives (ELO):
1. Describe system attachments.
2. Demonstrate how to attach a rescuer to a rope rescue system.
3. Demonstrate how to attach an ambulatory victim to a rope rescue system.
4. Demonstrate how to attach a rescue litter vertically to a rope rescue system.
5. Demonstrate how to attach a rescue litter horizontally to a rope rescue system.
6. Demonstrate how to tend a rescue litter.
7. Demonstrate how to attach a rescuer to a fall restraint system.
Topic 2-5: Belay/Safety Line Systems0:30
Terminal Learning Objective (TLO): The student will be aware of the importance of using a backup line to catch the
load in the event of a failure of the main line.
Enabling Learning Objectives (ELO):
1. Define key points regarding the operation of a belay/safety line system.
2. Demonstrate belay/safety line configurations.
3. Demonstrate lowering operations—basic configuration.
4. Demonstrate retrieval operations—basic configuration.
5. Describe system variations.
Topic 2-6: Rappelling / Descending0:30
Terminal Learning Objective (TLO): The student will be able construct and operate rope rescue descending systems.
Enabling Learning Objectives (ELO):
1. Describe descending techniques.
2. Demonstrate how to construct a fixed line for a rappelling
3. Demonstrate how to reeve a figure eight descender and brake bar rack.
4. Demonstrate a rappel and lock-off using a figure eight descender and brake bar rack.
5. Demonstrate a rappel using a figure eight descender and brake bar rack with a high and low anchor point.
Topic 2-7: Lower and Raise Main Line Systems
Terminal Learning Objective (TLO): The student will be able to demonstrate how to raise and lower Main Line Systems
Enabling Learning Objectives (ELO):
1. Describe rope rescue lowering and raising systems.
2. Demonstrate how to operate a lowering system.
3. Demonstrate how to convert a lowering system to a raising system with a 3:1 and a 5:1 inline— RPM.
4. Demonstrate how to convert a lowering system to a raising system with a 3:1 or 5:1 inline with directional pulley.
5. Demonstrate how to construct a 3:1 and 5:1 mechanical advantage (MA) system.
6. Demonstrate how to construct a 3:1 and 5:1 pig rig.
7. Demonstrate how to convert a lowering system to a raising system with a 3:1 and 5:1 pig rig.
Topic 3-1: Introduction to Lifting and Moving Heavy Objects
Terminal Learning Objective (TLO): The student will be familiar with the unit objectives in order to develop the proper
size-up, techniques, and safety considerations when attempting to lift, roll, or move heavy objects. Heavy objects are
unforgiving and cause severe, permanent injuries or death when performed incorrectly.
Enabling Learning Objectives (ELO):
Enabling Learning Objectives (ELO): 1. Describe tool types, capabilities, and safety considerations when lifting heavy objects.

- 3. Describe the appropriate personal protective equipment, safety, and medical precautions.
- 4. Describe rescue team positions.



PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 1 COURSE SYLLABUS

- 5. Describe determining the weight of structural components.
- 6. Describe moving heavy objects.
- 7. Demonstrate raising, stabilizing, rotating, and lowering a single heavy object.
- 8. Demonstrate raising, stabilizing, moving, and lowering multiple heavy objects.
- 9. Demonstrate raising, stabilizing, moving, and lowering multiple heavy objects while safely managing and extricating a victim from under the objects.

Topic 4-1: Introduction to Breaking and Breaching......4:00

Terminal Learning Objective (TLO): The student will be familiar with a structural collapse incident that requires breaking and breaching operations to gain access, remove debris, or release an entrapped victim. Breaking and breaching operations discussed in this course will focus on light-frame construction materials, such as wood and light-gauge metals, unreinforced masonry such as brick veneer, and reinforced masonry such as a cinder block wall. Enabling Learning Objectives (ELO):

- 1. Describe tool types, capabilities, and safety considerations when breaking and breaching.
- 2. Describe light-frame structure design and construction materials.
- 3. Describe the appropriate personal protective equipment, safety medical precautions.
- 4. Describe breaking and breaching operations including shape and size of breaching openings.
- 5. Describe breaking and breaching operations in other general construction categories.

1. Describe the components and operational functions of the seven ladder systems.

- Moving ladder slide Ladder slide Exterior leaning ladder Interior leaning ladder Cantilever ladder Ladder gin Ladder "A" frame
- 2. Describe the components and operational functions of the mechanical advantage system used in a ladder rescue system.

compromised light-frame structures and safely operate around them.

Enabling Learning Objectives (ELO):

- 1. Describe the techniques to mitigate structure collapse hazards.
- 2. Describe the steps involved during shoring size-up.
- 3. Describe different shoring size-up considerations.
- 4. Describe the proper placement of shoring components.
- 5. Describe the positions, roles, and responsibilities of the Shoring Team.
- 6. Describe the different types of shoring systems.

Enabling Learning Objectives (ELO):

- 1. Describe the tools and equipment for emergency shoring operations, including design, use, limitations, and applications.
- 2. Describe the safety considerations related to shoring tools and equipment.

Enabling Learning Objectives (ELO):

- 1. Describe the uses for timber spot shores.
- 2. Describe the components of timber spot shores.



PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 1 COURSE SYLLABUS

3. Describe the assembly procedures for timber spot shores.
4. Describe the proper placement of shoring components.
5. Describe the evaluation and safety check process for timber spot shores.
Topic 6-4: Introduction to the Two-post Vertical Shore (Class II)
Terminal Learning Objective (TLO): The student will be familiar with the skills and techniques required to construct a
two-post vertical shore.
Enabling Learning Objectives (ELO):
1. Describe the uses for a two-post vertical shore.
2. Describe the components of a two-post vertical shore.
3. Describe the assembly procedures for a two-post vertical shore.
4. Describe the proper placement of shoring components.
5. Describe the evaluation and safety check process for a two-post vertical shore.
Topic 6-5: Introduction to the Horizontal Shore
Terminal Learning Objective (TLO): The student will be familiar with the skills and techniques required to construct
horizontal shores.
Enabling Learning Objectives (ELO):
1. Describe the uses for horizontal shores.
2. Describe the components of horizontal shores.
3. Describe the assembly procedures for horizontal shores.
4. Describe the proper placement of shoring components.
5. Describe the evaluation and safety check process for horizontal shores.
Topic 6-6: Introduction to the Pre-constructed Window and Door Shore
Terminal Learning Objective (TLO): The student will be familiar with the skills and techniques required to construct
window and door shores.
Enabling Learning Objectives (ELO):
1. Describe the uses for window and door shores.
2. Describe the components of window and door shores.
3. Describe the assembly procedures for window and door shores.
4. Describe the proper placement of shoring components.
5. Describe the evaluation and safety check process for window and door shores.
Topic 6-7: Introduction to the Sloped Surface Shore with Cribbing
Terminal Learning Objective (TLO): The student will be familiar with the skills and techniques for using cribbing in
combination with a shoring system.
Enabling Learning Objectives (ELO):
1. Describe the need for shoring a sloped surface with cribbing.
2. Describe the components of a sloped surface shore with cribbing.
3. Describe the assembly procedures for cribbing a sloped surface.
4. Describe the evaluation and safety check process.
Topic 6-8: Introduction to the Split Sole Raker Shore System
Terminal Learning Objective (TLO): The student will be able to construct a split shore.
Enabling Learning Objectives (ELO):
1. Describe the uses for the split sole raker shore.
2. Describe the components of a raker shore system.
3. Describe the assembly procedure for a raker shore system.
4. Describe the proper placement of shoring components.
5. Describe the evaluation and safety check process for a raker shore system.
Topic 6-9: Introduction to the Cutting Station
Terminal Learning Objective (TLO): The student will be able to construct and safely operate a cutting station.
Enabling Learning Objectives (ELO):
1. Describe the uses for the cutting station.
2. Describe the design and components of the suffige station

- 2. Describe the design and components of the cutting station.
- 3. Describe the different applications for the cutting station.



PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 1 ACCREDITED TRAINING SITE REQUIREMENTS

An accredited Rescue Systems 1 (RS1) Training Site has facilities, structures, work areas, materials, props, tools, and equipment of adequate size, type, and quantity to fully and safely support the cognitive and psychomotor training required to deliver the RS1 curriculum.

SITE CAPACITY

A RS1 Training Site is evaluated on its ability to deliver the required training to a maximum of 48 students. Each capacity level represents the maximum number of modules that can be taught on the site at any given time. This maximum number will be determined based on the suitability of the site to safely train between 12 students in each of the individual modules. A site may be capable of delivering from one to four modules simultaneously.

Four Modules

- Rope Rescue
- Heavy Objects/Breaking and Breaching
- Ladder Rescue Systems
- Emergency Building Shores

One-module Site

- Supports the instruction for teaching the maximum of one (1) module at a time for twelve (12) students
- One (1) RS1 Primary Instructor is required for a student instructor ratio of 12:1

Two-module Site

- Supports the instruction for teaching the maximum of two (2) modules for twenty-four (24) students
- One (2) RS1 Primary Instructors are required for a student instructor ratio of 12:1

Three-module site

- Supports the instruction for teaching the maximum of three (3) modules for thirty-six (36) students
- Three (3) RS1 Primary Instructors are required for a student instructor ratio of 12:1
- One (1) RS1 Senior Instructor is required

Four-module site

- Supports the instruction for teaching the maximum of four (4) modules for forty-eight (48) students
- Four (4) RS1 Primary Instructors are required for a student instructor ratio of 12:1
- One (1) RS1 Senior Instructor is required

MINIMUM SITE REQUIREMENTS

The accredited RS1 Rescue Training Site assumes all responsibility, liability, and maintenance for the engineering design, strength, stability, and adequacy of all props, including anchor points and tie offs. The requesting agency further assumes all responsibility, liability, and maintenance for all tools, equipment, and supplies used at the site for the delivery of a RS1 class. This includes, but is not limited to, ladders, ropes, rescue hardware, shoring, and cribbing materials. The facilities and props for each module should be in close proximity to each other to facilitate timeframes.

Facilities

- Classroom of adequate size and capability (including audiovisual equipment) to support cognitive training
- Wash areas
- Bathrooms
- Rehabilitation area
- Safe and adequate parking

Rope Rescue Module

- Structure, 30' minimum height with working roof that is of sound and safe engineering design
- High and low anchor points to perform rope evolutions
- Area to demonstrate and practice skills learned in Low Angle Rope Rescue (rescue knots, rescue/victim packaging, and rope systems)
- Area to demonstrate and practice anchor systems

Heavy Objects/Breaking and Breaching Module

Heavy Objects

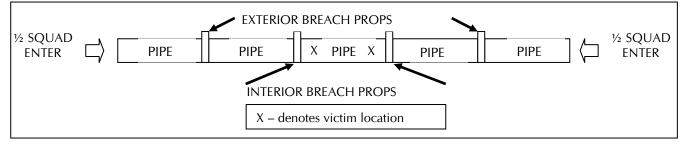
- Three (3) 20'x20' concrete or asphalt pads with a 10' diameter buffer area at grade level (may be contiguous)
- Four (4) 3'x3'x3' concrete cubes
- Four (4) 5'x8'x12" concrete reinforced slabs (6,000 pounds each)



PO Box 944246, Sacramento CA 94244-2460

Breaking and Breaching

- Working area at grade level, 20' long x 20' wide
 - Concrete, asphalt, or unimproved ground
- Length of work area is dependent on the length of the pipe-shaped props
- Five (5) pipe-shaped props placed end to end allowing for breaching props to be placed between them
 - Concrete, metal, or wood
 - 36"-48" diameter x 6'-10' long



- Two (2) exterior wall breaching props
 - One side with 4'x4'x½" Wonder board over 4'x4' stucco lathing over 4'x4'x¾" plywood nailed with 8d nails 6" on center to a 2"x4" frame with wood studs 16" on center nailed with 16d nails
 - The other side sheeted with 4'x4'x1/2" drywall
 - Each prop shall include a span of electrical wire / conduit to simulate an obstacle
- Two (2) interior wall breaching props
 - One (1) with 4'x4'x1/2" drywall fastened with 1 1/4" drywall screws 6" on center to a 2"x4" frame with <u>metal studs</u> 16" on center
 - The other side sheeted with another 4'x4'x1/2" drywall
 - Prop shall include a span of electrical wire / conduit to simulate an obstacle
 - One (1) with 4'x4'x½" drywall fastened with 1 ¼" drywall screws 6" on center to a 2"x4" frame with 2"x4" wood studs 16" on center nailed with 16d nails
 - The other side sheeted with another 4'x4'x1/2'' drywall
 - Prop shall include a span of electrical wire / conduit to simulate an obstacle.

Ladder Rescue Systems Module

- 20' structure adequate for simultaneous operations of ladder systems that is of sound and safe engineering design
- Side openings to accommodate simultaneous operations of ladder systems
- High and low anchor points appropriately placed for use with each operation
- Open field area to accommodate simultaneous operations, ladder "A" frame, ladder gin, and pickets
- Area to lower a student one story through an opening using an interior leaning ladder
 - An 8' minimum height is required

Emergency Building Shores Module

- Structure(s) adequate for simultaneous operations of interior and exterior shoring systems that is of sound and safe engineering design
 - Area large enough to accommodate lumber supply (near cutting station)

Interior Shores

- Working area: 16'x16' minimum with 8' ceiling
- Timber spot shores
 - Area with simulated or actual joist(s) to set two (2) timber spot shores
- Two post vertical shore
 - Area with simulated or actual joist(s) to set one (1) two (2) post vertical shore
- Two post horizontal shore
 - An opening 3' to 8' wide and 8' minimum in height
- Window and door shores
 - Window opening: 2'x2' minimum to 4'x4' maximum
 - Door opening: 2'6"x6'8" minimum to 4'x7' maximum



PO Box 944246, Sacramento CA 94244-2460

Sloped Surface Shore (Cribbing)

- 8'x8' working area minimum
- Configured so that the crib bed of a sloped floor shore is no greater than 3' in height when constructed
- 3' elevation within a 10' distance maximum slope (30 percent / 15 degree slope)

Raker Shores

- One (1) wall/area 14' high x 12' wide
- Working area: 16' away from building and 12' wide

Cutting Station

- Minimum of 6" off the ground
- 16'x16' working area

EQUIPMENT STANDARDS

Student safety is of paramount importance when conducting the type of high-risk training associated with the RS1 course. The equipment listed below is the minimum for each accredited RS1 Training Site. The equipment is in compliance with or exceeds the standards listed in NFPA 1983, Standard on Fire Service Life Safety Rope, Harness, and Hardware. Student safety is of paramount importance when conducting the type of high-risk training associated with the RS1 course. All PPE shall be the responsibility of the student and shall meet agency and site requirements. Lumber list does not include lumber required to construct props.

Rescue Systems 1		_		Heavy	Breaking &	.	Total 4
Equipment Standards	Description	Ropes	Ladders	Objects	Breaching	Shoring	Modules
CONSUMABLES							
Common nails	8d				5 lbs.	5 lbs.	10 lbs.
Common nails	16d				5 lbs.	5 lbs.	10 lbs.
Drywall	4'x8'x½"				3		12
Duplex nails	8d				5 lbs.	20 lbs.	25 lbs.
Duplex nails	16d				5 lbs.	40 lbs.	45 lbs.
Gasoline and bar oil						1	1
Metal Studs	2"x4"x8'				2		8
Plywood	4'x8'x¾"				1		4
Stucco K-Lath / wire mesh	4'x4'				2		8
Wonder Board	3'x5'x1⁄2"				2		8
NONCONSUMABLES							
Anchor plate		3	1				4
Brake bar rack		3	1				4
Carabiner (General Use)		25	25				25
Commercial Class III harness	Small	1	1				2
Commercial Class III harness	Medium	1	1				2
Commercial Class III harness	Large	1	1				2
Commercial Class III harness	Extra large	1	1				2
Commercial Victim Pelvic Harness		1	1				2
Commercial Victim Chest Harness		1	1				2
Cribbing	4"x4"x24"					24	24
Cribbing	4"x4"x18"			100			100
Cribbing	4"x4"x9"			25			25
Cribbing	2"x4"x9"			25			25
Cribbing/Cleat	2"x4"x24"					12	12
Cribbing/cleat	2"x4"x18"			50			50
Edge protector	2 / 1 / 10	1	1				2
Edge roller		2	1				3
Figure eight descender		3	1				4
Gibbs ascender		1	2				3
Gusset plate	12"x12"x¾"		-			44	44
Gusset plate	6"x12"x ³ /4"					12	12
Ladder	14'		1			12	1
Ladder	24'		1				1
Load Releasing Strap	<u> </u>	4	1				5
Lifeline (Low stretch or static)	½"x150'	3	3				6
Lumber	4"x4"x8'	5	5	1	+	16	16
Lumber	4 x4 x8 4"x4"x10'	+				2	2
Lumber	4 x4 x10 4"x4"x12'	+				3	3
Lumber	4 x4 x12 4"x4"x14'	+				2	2
Lumper	4 X4 X 14					2	<u>∠</u>



PO Box 944246, Sacramento CA 94244-2460

Rescue Systems 1				Heavy	Breaking &		Total 4
Equipment Standards	Description	Ropes	Ladders	Objects	Breaching	Shoring	Modules
Lumber	4"x4"x16'					2	2
Lumber	2"x4"x8'					18	18
Lumber	2"x4"x12'					2	2
Lumber	2"x6"x8'					7	7
Lumber	2"x4"x10'					2	2
Lumber	1"x6"x8'					4	4
Lumber	2"x6"x10'					6	6
Lumber	2"x6"x12'					9	9
Picket, steel	1"x4'		10		2	12	24
Plywood	4'x8'x¾"					1	1
Prusik loop	Short	3	3			-	6
Prusik loop	Long	4	4				8
Prusik minding pulley	Long	3	3				6
Pulley (round or PMP)	2" or 4"	3	3		1 1		6
Rescue litter		1	1				2
Rescue litter pre-rig with prusiks		1	1				2
Tie rope	10'	12	1				12
Webbing, blue tubular	1"x15'	15	10				25
Webbing, green tubular	1"x5'	15	10				25
Webbing, orange tubular	1"x20'	15	10				25
							25
Webbing, yellow tubular	1"x12'	15	10			10	
Wedge pairs	2"x4"x12" 4"x4"x18"			10		12	12 16
Wedge pairs	4 x4 x18			10		6	10
TOOLS					0		0
Axe, flat head					2		2
Axe, pick head			-	-	1		1
Bolt cutter					2		2
Carpenter pencils					-	12	12
Cold chisel	1"x7-7/8"				2		2
Chain saw					2	2	2
Crow bar	3'			4	1	8	13
Framing hammer					1	12	13
Framing square with tables						2	2
Hacksaw, heavy duty					2		2
Hand saw, crosscut					2	2	4
Hydraulic jack	5 ton (min.)			1			1
Lumber marker					2	12	14
Measuring tape					2	12	14
Pinch point pry bar	60"			6	1		7
Pipe	2"x4'			8			8
Shovel, round point			1		1		2
Shovel, square point					1		1
Single jack hammer	3 – 4 lb.				2	4	6
Sledge hammer	8 – 10 lb.		1	1	1		2
Speed square			1			12	12
Tool pouch						12	12
Circular saw kit - 10 ¼" (OPTIONAL)	40 tooth spare carbide tip – blade replacement wrench					1	1

SITE DEVIATION

In the event that a training site has a facility, structure, or prop that does not comply with the RS1 minimum site requirements and equipment standards, the site has the opportunity to apply for a site deviation. A RS1 Senior Instructor or designee submits to the Chief of State Fire Training a formal letter requesting site deviation. This letter must describe the site deviation in detail by listing:

- The need and parameters of the deviation.
- New or revised lesson plans linked to the deviation that ensures consistency with the standards and behavioral objectives of the approved RS1 curriculum.
- Demonstration, either live or through visual aids, of any deviated technique or procedure.



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

The Chief of State Fire Training will review the request for site deviation. Any deficiencies will be appropriately documented and discussed with the RS1 Senior Instructor or designee requesting the site deviation. If site deviation is denied, a provisional accreditation may be granted at this time. If a site is not approved, they have three (3) months to comply with the site requirements identified as deficient in the inspection report.

SITE ACCREDITATION PROCESS

Rescue Systems 1 Training Sites will be inspected for compliance with the RS1 minimum site requirements and equipment standards. Sites may be accredited as one of the following:

- Full Accreditation
- A permanent-use site that fully meets the RS1 minimum site requirements and equipment standards.
- Temporary Accreditation
 - A short-term use site that meets the RS1 minimum site requirements and equipment standards.
 - Typically, these sites are in areas where permanent sites are not practical or available.
 - Accreditation is granted for the purpose of delivering a set number of courses.
 - Once the training is complete, the temporary accreditation is rescinded.

Full Accreditation

A RS1 Training Site representative submits to the Chief of State Fire Training a formal letter requesting full accreditation for a permanent site. This letter must describe the site in detail by listing the facilities, structures, work areas, materials, props, tools, and equipment available and ready for delivering a RS1 course. State Fire Training staff and/or a registered RS1 Senior Instructor, operating under the direction of the Chief of State Fire Training, will conduct an inspection of the RS1 Training Site. Any discrepancies or deficiencies will be appropriately documented and discussed with the site representative at the time of the inspection. Copies of all inspection documents and notes will be kept on file. The Chief of State Fire Training will notify the RS1 Training Site of their status after the inspection.

Temporary Accreditation

A registered RS1 Senior Instructor or designee submits to the Chief of State Fire Training a formal letter requesting temporary accreditation for delivering a RS1 course. This letter must describe the site in detail by listing the facilities, structures, work areas, materials, props, tools, and equipment available and ready for delivering a RS1 course. Photographs of each required structure, work area, and prop must be included in the application package. A completed "Request for Rescue Systems Course Scheduling" providing the dates of the upcoming course and all instructors must be included in the application package. Temporary accreditation must be requested at least ninety (90) days before the beginning date of the course.

Appeals

Step 1

The RS1 Training Site representative must submit in writing to the Chief of State Fire Training all evidence to support reversing SFT's denial of site accreditation. After review of all submitted materials, the Chief of State Fire Training will notify the site representative in writing of the decision to uphold, modify, or withdraw the denial of accreditation. Step 2

If the denial of accreditation is upheld, the site representative may appeal the findings to the Assistant State Fire Marshal. The RS1 Training Site representative must submit in writing all evidence to support reversing the decision of the Chief of Education and Training. After review of all submitted materials, the Assistant State Fire Marshal will notify the site representative in writing of the decision to uphold, modify, or withdraw the denial of accreditation. The decision of the Assistant State Fire Marshal is final.



COURSE INFORMATION AND REQUIRED MATERIALS

PO Box 944246, Sacramento CA 94244-2460

Course:	Rescue Systems 2: Advanced Rescue Skills (2009)		CFSTE
Hours:	40		
Designed For:	All fire service and allied emergency response personnel		
Description:	Provides advanced heavy rescue system techniques. Key to	pics include: Structural	building
	types, wood and mechanical shores, crib capacities, floor w	veight calculations, bui	lding search,
	confined space considerations, damaged structure hazard a	ssessment, use of powe	er tools, air
	bags, and USAR ICS.		
Prerequisites:	I-200, Rescue Systems 1		
Certification:	Under development		
Class Size:	Student/instructor ratio: 12:1		
	48 student maximum: Four-module site with 4 Primary Inst		
	36 student maximum: Three-module site with 3 Primary Ins		nstructor
	24 student maximum: Two-module site with 2 Primary Inst		
	12 student maximum: One-module site with 1 Primary Inst		
Restrictions:	This course can only be delivered at an accredited SFT Res	cue Training site.	
	REQUIRED STUDENT MATERIALS	EDITION	VENDORS
Student Manual		2009	SFT
	REQUIRED INSTRUCTOR MATERIALS		
Instructor Materia	ls on disk (PowerPoint Slides included)	2009	SFT
Student Manual		2009	SFT
	VENDORS		
T S	tate Fire Training Bookstore (916-445-8158)	http	o://sft.fire.ca.go
Information on str	trategies and techniques for locating victims in a collapsed bu	unung	
	uctural triage and collapse patterns of building structures echniques to shore and stabilize building components echniques to break or breach building components to access	-	
Information and te Techniques of me	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems	-	
Information and te Techniques of me	echniques to shore and stabilize building components echniques to break or breach building components to access	-	
Information and te Techniques of me Information and te purse Hours	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects	a victim(s)	
Information and te Techniques of me Information and te urse Hours pic 1-1 Introductio	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects n and Introduction	a victim(s)	1:0
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects n and Introduction Objective (TLO): The student will be familiar with course adn	a victim(s)	1:0
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio Terminal Learning O equirements for su	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects n and Introduction Dbjective (TLO): The student will be familiar with course adn ccessful completion.	a victim(s)	1:0
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio Ferminal Learning C equirements for su	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects an and Introduction Objective (TLO): The student will be familiar with course adn ccessful completion. Objectives (ELO):	a victim(s) ninistration and operati	1:0
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio Terminal Learning (requirements for su Enabling Learning (1. Describe starting	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects an and Introduction Objective (TLO): The student will be familiar with course adn ccessful completion. Dbjectives (ELO): g times and attendance requirements for successful completio	a victim(s) ninistration and operati	1:0 onal
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio Ferminal Learning C equirements for su Enabling Learning C I. Describe starting B. Describe the ne	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction Objective (TLO): The student will be familiar with course adn ccessful completion. Objectives (ELO): g times and attendance requirements for successful completio cessary paperwork to complete all administrative processes re	a victim(s) ninistration and operati	1:0 onal
Information and te Techniques of me Information and te urse Hours pic 1-1 Introductio Terminal Learning C equirements for su inabling Learning C . Describe starting . Describe the ne . Describe the cri	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction Objective (TLO): The student will be familiar with course adn ccessful completion. Objectives (ELO): g times and attendance requirements for successful completio cessary paperwork to complete all administrative processes re teria for successful completion of the course.	a victim(s) ninistration and operati	1:0 onal
Information and te Techniques of me Information and te urse Hours pic 1-1 Introductio reminal Learning (equirements for su nabling Learning (. Describe starting . Describe the ne . Describe the starting . Describe the starting . Describe the starting	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction Objective (TLO): The student will be familiar with course adn ccessful completion. Objectives (ELO): g times and attendance requirements for successful completio cessary paperwork to complete all administrative processes re teria for successful completion of the course. dent manual and its contents.	a victim(s) ninistration and operati on of the course. equired for successful o	1:0 onal completion.
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio erminal Learning (equirements for su nabling Learning (Describe starting) Describe the ne Describe the ne Describe the su Describe the su Describe the su	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction Objective (TLO): The student will be familiar with course adn ccessful completion. Objectives (ELO): g times and attendance requirements for successful completio cessary paperwork to complete all administrative processes re teria for successful completion of the course. dent manual and its contents.	a victim(s) ninistration and operati on of the course. equired for successful c	
Information and te Techniques of me Information and te urse Hours pic 1-1 Introductio reminal Learning (equirements for su nabling Learning (Describe starting Describe the ne Describe the cri Describe the stup pic 1-2 Safety	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction	a victim(s) ninistration and operati on of the course. equired for successful c	
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio ferminal Learning (equirements for su nabling Learning (Describe starting) Describe the ne Describe the stup pic 1-2 Safety ferminal Learning (Dractices in all phase	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction	a victim(s) ninistration and operati on of the course. equired for successful c	
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio reminal Learning (equirements for su nabling Learning (1. Describe starting 3. Describe the ne 4. Describe the cri 5. Describe the stu pic 1-2 Safety Ferminal Learning (practices in all phase nabling Learning (echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction	a victim(s) ninistration and operati on of the course. equired for successful c	
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio ferminal Learning (equirements for su nabling Learning (Describe starting) Describe the ne Describe the ter Describe the stup pic 1-2 Safety Ferminal Learning (Dractices in all phase nabling Learning (Describe the im	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction	a victim(s) ninistration and operati on of the course. equired for successful c	
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio Ferminal Learning (equirements for su nabling Learning (Describe starting) Describe the ne Describe the ter Describe the stupic Describe the im Describe the im	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction	a victim(s) ninistration and operation of the course. equired for successful of ance of including sound	
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio Ferminal Learning C equirements for su nabling Learning C Describe starting Describe the ne Describe the su pic 1-2 Safety Ferminal Learning C practices in all phase nabling Learning C Describe the im Describe the im Describe the im Describe the im Describe the im	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects an and Introduction	a victim(s) ninistration and operati on of the course. equired for successful o ance of including sound	
Information and te Techniques of me Information and te purse Hours pic 1-1 Introductio Ferminal Learning (equirements for su fabling Learning (1. Describe starting) 3. Describe the ne 4. Describe the cri 5. Describe the stu- pic 1-2 Safety Ferminal Learning (practices in all phase fabling Learning (1. Describe the im 2. Describe the im 3. Describe the im 3. Describe the im 4. Describe and er	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects in and Introduction	a victim(s) ninistration and operation of the course. equired for successful control of including sound ance of including sound efing. cape routes, and Safe zo	1:0 onal completion. 1:0 d safety ones).
Information and te Techniques of me Information and te ourse Hours opic 1-1 Introductio Terminal Learning O requirements for su Enabling Learning O 1. Describe starting 3. Describe the ne 4. Describe the cri 5. Describe the stu opic 1-2 Safety Terminal Learning O practices in all phas Enabling Learning O 1. Describe the im 2. Describe the im 3. Describe the im 3. Describe the im 4. Describe and er 5. Perform a risk h	echniques to shore and stabilize building components echniques to break or breach building components to access tal burning systems echniques for lifting and moving heavy objects an and Introduction	a victim(s) ninistration and operation on of the course. equired for successful of ance of including sound ance of including sound efing. cape routes, and Safe ze imize risks and/or elimi	1:0 onal completion. 1:0 d safety ones).

7. Describe the importance of safety risk and hazard identification



PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 2 COURSE SYLLABUS

Topic 1-3 Survival
Terminal Learning Objective (TLO): The student will be familiar with the basic survival strategies during a large disaster
if they should be isolated or separated from their support system.
Enabling Learning Objectives (ELO):
1. Describe the psychological importance of keeping a positive attitude.
2. Identify suitable and safe shelter.
 Describe the importance of protective clothing and outerwear in disaster areas during inclement weather.
 Identify potable water sources and how to construct a fire.
5. Describe when travel is necessary, how to orientate yourself to the environment, and how to build a signaling
system. Topic 1-4 Search Capabilities1:00
Terminal Learning Objective (TLO): The student will be familiar with the reconnaissance strategies that should be
5,
employed to produce the best results for finding the most victims.
Enabling Learning Objectives (ELO):
1. Establish search priorities and apply search strategies.
 Identify reconnaissance team assignments and positions. Describe the importance of incomparties activity activity receive planning and briefing.
3. Describe the importance of incorporating safety into rescue planning and briefing.
4. Apply a range of search tools from simple voice call-outs to the use of more sophisticated electronic equipment and
canines.
Topic 1-5 Structure Triage
Terminal Learning Objective (TLO): The student will be familiar with the most appropriate strategies to be used to
effect rescues in various types of structures by learning how to triage structures and identify trapped victim(s).
Enabling Learning Objectives (ELO):
1. Identify the phases of a disaster
 Apply tools used in structural triage and perform structural/hazard assessment. Describe the existence of technologies and perform structural triage.
3. Describe the variety of task assignments for the reconnaissance team.
4. Apply appropriate structural hazard markings to buildings.
5. Apply search and rescue assessment markings.
6. Perform a basic building search and rescue plan.
Topic 2-1: Collapse Patterns Structural Engineering
Terminal Learning Objective (TLO): The student will be familiar with how building structures can be separated into
specific types that exhibit unique collapse patterns when subjected to extreme forces due to earthquake, wind, and
explosions.
Enabling Learning Objectives (ELO):
1. Describe how earthquakes, wind, and explosions produce unique effects on different types of structures.
2. Describe how each of these produce unique and recognizable collapse patterns.
3. Describe how this knowledge will allow us to recognize the difference between survivable and less-survivable
voids.
Topic 2-2: Structural Hazard Identification
damaged structures, as well as understand to the most common hazards found in damaged structures, and methods that
have been used to used to mitigate them.
Enabling Learning Objectives (ELO):
1. Identify how concrete and masonry crack
2. Describe how these cracks can be "read" to predict future performance of these structures.
 Identify the most common hazardous conditions that will occur in the four building types.
Topic 3-1: Basic Shoring
Terminal Learning Objective (TLO): The student will be familiar with the function and capacity limitations of the shoring used in US&R to support damaged structures and why and how shores are constructed.
Enabling Learning Objectives (ELO): 1. Determine weights to be supported.
 Determine weights to be supported. Determine the appropriate shore to be constructed.
3. Describe the sequence of construction to minimize risk.
5. Describe the sequence of construction to minimize risk.

4. Demonstrate how to inspect constructed shores.



PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 2 COURSE SYLLABUS

Topic 3-2: Shoring Construction
Terminal Learning Objective (TLO): The student will be familiar with how to maintain the integrity of all structurally
unstable elements and how to properly transmit or redirect the collapse loads to stable ground.
Enabling Learning Objectives (ELO):
1. Demonstrate a proper shoring size-up.
2. Identify locations for proper shoring placement.
3. Describe shoring team concepts and identify positions and purpose.
4. Describe the different types of shoring components and equipment.
Topic 4-1 Breaking and Breaching
Terminal Learning Objective (TLO): The student will be able to properly breach, break, cut, and burn to gain access
through concrete, steel, or other structural components during rescue operations in heavy floor, heavy wall, steel, and
concrete structures.
Enabling Learning Objectives (ELO):
1. Identify types of concrete and their components.
2. Identify concrete components and their importance to systems design.
3. Describe their importance during collapse rescue operations.
4. Identify concrete construction types.
5. Describe the properties, strengths, and weaknesses of concrete and its components.
6. Select tools or tool packages for rescue operations.
7. Identify functional parts of an exothermic torch.
8. Identify functional parts of an oxy-acetylene torch.
9. Troubleshoot each tool as needed.
Topic 4-2: Tool Applications and Assessment1:00
Terminal Learning Objective (TLO): The student will be able to inspect, operate, maintain, and safely use the power
tools used in Rescue Systems 2.
Enabling Learning Objectives (ELO):
1. Describe the operator's influence on tool performance.
2. Describe electrical power sources, electrical loads, and tool safety.
3. Describe the tool assessment criteria.
4. Demonstrate a pre-use inspection of all gas, fuel, pneumatic, hydraulic, and electric power tool systems.
Topic 4-3 Metal Burning
Terminal Learning Objective (TLO): The student will be familiar with the technology, capabilities, and characteristics of
each different metal burning system, the different types of metals and their characteristics, which metal burning system
is best suited for a particular job or assignment.
Enabling Learning Objectives (ELO):
 Describe the functions that need to be performed by the burning teams. Describe the selectory of the selectory of the selectory of selectory of selectory of selectory of the selectory of the selectory of the selectory of selec
 Describe the advantages and disadvantages of the various types of metal burning equipment. Describe the different and meet surrediset methods to be used with each outling on burning surters to sefely.
3. Describe the different and most expedient methods to be used with each cutting or burning system to safely
accomplish the assigned task. Topic 5-1 Lifting and Moving
Terminal Learning Objective (TLO): The student will be able to size-up objects that have entrapped people and
efficiently apply a variety of machines and power to safely move these objects.
Enabling Learning Objectives (ELO):
1. Describe basic physics as it relates to weight, gravity, center of gravity, and friction and resistance force.
2. Demonstrate the use of a mechanical advantage to move heavy objects.
3. Demonstrate the effective use of air bags.
4. Demonstrate proper load stabilization techniques.
5. Demonstrate the use of a wedge anchor and eye nut.
6. Calculate the weights of common materials.
7. Use proper safety protocols.



PO Box 944246, Sacramento CA 94244-2460

RESCUE SYSTEMS 2 ACCREDITED TRAINING SITE REQUIREMENTS

An accredited Rescue Systems 2 (RS 2) Training Site has facilities, structures, work areas, materials, props, tools, and equipment of adequate size, type, and quantity to fully and safely support the cognitive and psychomotor training required to deliver the RS2 curriculum.

SITE CAPACITY

A RS2 Training Site is evaluated on its ability to deliver the required training to a maximum of 48 students. Each capacity level represents the maximum number of modules that can be taught on the site at any given time. This maximum number will be determined based on the suitability of the site to safely train between 12 students in each of the individual modules. A site may be capable of delivering from one to four modules simultaneously.

Four Modules

- Interior Shores Module
- Exterior Shores Module
- Breaking and Breaching Module
- Lifting and Moving Module

One-module Site

- Supports the instruction for teaching the maximum of one (1) module at a time for twelve (12) students
- One (1) RS 2 Primary Instructor is required for a student instructor ratio of 12:1

Two-module Site

- Supports the instruction for teaching the maximum of two (2) modules for twenty-four (24) students
- One (2) RS 2 Primary Instructors are required for a student instructor ratio of 12:1

Three-module site

- Supports the instruction for teaching the maximum of three (3) modules for thirty-six (36) students
- Three (3) RS 2 Primary Instructors are required for a student instructor ratio of 12:1
- One (1) RS 2 Senior Instructor is required

Four-module site

- Supports the instruction for teaching the maximum of four (4) modules for forty-eight (48) students
- Four (4) RS 2 Primary Instructors are required for a student instructor ratio of 12:1
- One (1) RS 2 Senior Instructor is required

MINIMUM SITE REQUIREMENTS

The accredited RS 2 Rescue Training Site assumes all responsibility, liability, and maintenance for the engineering design, strength, stability, and adequacy of all props, including anchor points and tie offs. The requesting agency further assumes all responsibility, liability, and maintenance for all tools, equipment, and supplies used at the site for the delivery of a RS2 class. This includes, but is not limited to, ladders, ropes, rescue hardware, shoring and cribbing materials. The facilities and props for each module should be in close proximity to each other to facilitate timeframes.

Facilities

- Classroom of adequate size and capability (including audiovisual equipment) to support cognitive training
- Wash areas
- Bathrooms
- Rehabilitation area
- Safe and adequate parking

Interior and Exterior Shores Module

- Structure(s) adequate for simultaneous operations of interior and exterior shoring systems that is of sound and safe engineering design
 - Area large enough to accommodate lumber supply (near cutting station)
- Interior shore
 - Working area: 20'x20' minimum with 8' ceiling
- Double-T spot shore
 - Area with simulated or actual joist(s) to construct one (1) Double-T spot shore
- Vertical shore
 - Area with simulated or actual joist(s) to set one (1) vertical shore with three (3) posts
- Laced post shore
 - Area with simulated or actual joist(s) to construct one (1) laced post shore



PO Box 944246, Sacramento CA 94244-2460

- Window, door, and horizontal shore
 - Two window openings 2' to 4' wide
 - At least one opening to be racked 10 to 15 degrees from plumb
- Two door openings 30" to 48" wide
- At least one opening to be racked 10 to 15 degrees from plumb
- Sloped surface shore
 - 20'x20' working area with a 12' wide 12' long sloped surface
 - Configured so that the sloped surface is no shorter than 3' in height at the low end
 - Slope angle to be at least 6" in 10' (3 deg, 5%) to a max of 120" in 10' (45 deg. 100%)
- Raker shore
 - One 16' high minimum 16' long wall
 - One 16' high 16' long wall raked 5 to 15 degrees from plum
 - 20'x20' working area
- Cutting station and table
 - 20'x20' working area
 - Cutting table construction as per student/instructor manual

Breaking and Breaching Module

- Working area at grade level, 20' long, 20' wide
 - Concrete, asphalt, or unimproved ground
- Length of work area is dependent on the length of the pipe-shaped props
- Four (4) concrete pipes or concrete vaults
 - 48" diameter
 - 8' long
- Twelve (12) re-enforced concrete slabs
 - 4'x4'x6" minimum with a maximum thickness of 8"
 - #3 rebar placed 12" on center
 - 5 sack mix
 - 2,500 psi
- Twelve (12) re-enforced concrete slabs
- 4'x4'x3" minimum with a maximum thickness of 6"
- #3 rebar placed 12" on center
- 5 sack mix
- 2,500 psi
- Two (2) steel plates
 - ¼"x4'x8'
 - Can be scrap material
- Two (2) steel I-beams
 - Various lengths
- Can be scrap material
- Ten (10) feet wire rope
 - ½" diameter
- Two (2) steel siding / decking
- 10'x2'x20 gauge
- Twelve (12) wood dunnage
 - 4"x4"x8'

Lifting and Moving Module

- Three (3) 20'x20' concrete pads with a 10' diameter buffer area at grade level (may be contiguous)
 - Concrete or asphalt
- Two (2) 5'x8'x12" concrete reinforced slabs (6,000 pounds each)
- One (1) 4'x8' minimum, solid concrete reinforced cylinder (15,000 lbs.)
- This can be accomplished by filling the 4'x8' aqua conduit with concrete
- One (1) 5'x10'x5 ½" concrete reinforced slab
- Any combination of props to meet the KSAs of the final practical exercise



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

EQUIPMENT STANDARDS

Student safety is of paramount importance when conducting the type of high-risk training associated with the RS2 course. The equipment listed below is the minimum for each accredited RS2 Training Site. The equipment is in compliance with or exceeds the standards listed in NFPA 1983, Standard on Fire Service Life Safety Rope, Harness, and Hardware. Student safety is of paramount importance when conducting the type of high-risk training associated with the RS2 course. All PPE shall be the responsibility of the student and shall meet agency and site requirements. Lumber list does not include lumber required to construct props.

Rescue Systems 2 Equipment Standards	Description	Exterior Shores	Interior Shores	Lifting & Moving	Breaking & Breaching	Total 4 Modules
CONSUMABLES	Decemption	Gildide	Cheros	lineting	Drouoling	medaloo
Anchors	Concrete wedge 1/2"x51/2"				48	48
Cleats	2"x4"x12"	12	12		-10	24
Common nails	8d	10 lbs	10 lbs			20 lbs
Common nails	16d	15 lbs	15 lbs			30 lbs
Drinking cups	100	50	50	50	50	200
Duplex nails	8d	100 lbs	100 lbs	50	50	200 lbs
	16d	100 lbs	100 lbs			200 lbs
Duplex nails		100 lbs	201001		40	
Eye nuts	Female H/D ¹ / ₂ " eye nuts	4			12	12
Gasoline – premix	5 gallon – safety can - funnel	1			1	2
Gasoline - unleaded	5 gallon – safety can - funnel	1	10		1	2
Lumber	6"x6"x16'	10	10			20
Lumber	4"x4"x16'	12	12			60
Lumber	4"x4"x14'	15	15	4		34
Lumber	4"x4"x10'	12	12			24
Lumber	2"x6"x16'	30	30			60
Lumber	2"x4"x12'	20	20			40
Lumber	2"x4"x10'	5	5			10
Lumber	2"x4"x16'	12	12			24
Lumber markers		12	12			24
Nails, pneumatic	8d, full head type nails	1/2 case	1/2 case			1 case
Nails, pneumatic	16d, full head type nails	½ case	1/2 case			1 case
Nails, powder actuated (optional)	2 ¹ / ₂ " with washers	48				48
Nails, powder actuated (optional)	3" with washers	48				48
Plywood	4'x8'x¾"	4	4			8
Plywood	2'x2'x ³ / ₄ " (size of air bag)		-	4		4
Plywood gussets	12"x12"x ³ / ₄ "	36	36			72
Plywood gussets	6"x12"x¾"	36	36			72
Powder actuated charges (optional)	22 cal	96				96
Rotary hammer bit <i>(optional)</i>	2" carbide tip masonry bit	00			1	1
Rotary hammer bits	¹ / ₂ " carbide tip masonry bits	1			6	7
Rotary hammer bits	³ / ₄ " carbide tip masonry bit	1			4	5
Rotary hammer bits	1 ¹ / ₈ " carbide tip masonry bit	1			4	5
NONCONSUMABLES		1			-	5
Cribbing	4"x4"x18" (24" recommended)			140	24	164
Cribbing	2"x4"x18" (24" recommended)	-		50	12	62
Cribbing	4"x4"x9"	-		25	12	25
Cribbing	2"x4"x9"			25		25
0				25	1	
Fire extinguishers	Dry chemical				1	1
Fire extinguishers	Water can				1	1
First aid kit			10		.	1
Picket, steel	1"x4'	12	12	optional	4	28
Rescue litter or Sked				optional	1	1
Rescue manikin		-		1	1	2
Tarps/salvage covers	Cover a 24'x24' area	1	1	1	2	5
Water jug	5 gallon	1	1	1	1	4
Wedges	4"x4"x18"	12 sets		24 sets	12 sets	48 sets
Wedges	2"x4"x12"	12 sets	24 sets	24 sets	12 sets	72 sets
TOOLS						
Anchor kit	1 wrench (per manufacturer's specifications			1		1



PO Box 944246, Sacramento CA 94244-2460

Rescue Systems 2		Exterior	Interior	Lifting &	Breaking &	Total 4
Equipment Standards	Description	Shores	Shores	Moving	Breaching	Modules
Air bags kit, high pressure per OSD	1 pressure regulator					
	1 supply hose					
	1 controller			1		1
	2 hose (color coded)			•		•
	2 HP air bags (50 ton minimum					
	capability, any combination)					
Air bags kit, low pressure per OSD	1 pressure regulator					
	1 supply hose					
	1 controller			1		1
	1 air bag hose					
	1 LP air bags (minimum 5 ton					
	capability any combination)					
Air cylinders	SCBA bottles			10		10
Air chisel (optional)					1	optional
Atmospheric monitor (optional)					1	1
Bolt cutters	30"				2	2
Building marking kit	Spray paint (orange)					
	Lumber chalk (stick)					
	Lumber crayon (red)				1	1
	Lumber crayon (yellow)					
	Lumber pencil					
	Flagging tape (1" orange or red)					
Carabiners				4 (optional)	6	10
Cats paw		4	4			8
Crow bar	3'	4	4	4	2	14
Carpenter belts		10	10			20
Come-a-long	2 ton minimum			1 (optional)	1	2
Chain	20' - 3/8" - grade 7 with a grab					4
	and slip hook			1		1
Chain	10' - ³ / ₈ " - grade 7 with a grab			4		4
	and slip hook			1		1
Chalk line with chalk		1	1			2
Chain saw kit - gasoline	Chain adjusting tool					
Ũ	Spare chain					
	Spare bar	1				1
	Spare spark plug					
	Bar oil					
Chain saw kit - electric	Chain adjusting tool					
	Spare chain		1			1
	Spare bar		1			1
	Bar oil					
Cutting torch kit:	Rods					
Plasma cutter or exothermic or	Tips					
oxy/acetylene or gasoline	Strikers				1	1
	Tip cleaning tools					
	Burner's goggles, gloves, jacket					
Cutting torch	Oxy/acetylene, oxy/gasoline,				1	1
-	exothermic, or plasma				1	I
Circular saw kit - 7¼"	Spare carbide tip	1	1			2
	Blade replacement wrench	1	1			2
Circular saw kit - 10¼"	40 tooth spare carbide tip	1	1			2
(Beam saw)	Blade replacement wrench	I	'			2
Demolition hammer, small with chise	35-45 lbs.					
and bull point bits	Electric, hydraulic, pneumatic, or				1	1
	gasoline					
Demolition hammer, large with chisel						
and bull point bits	Electric, hydraulic, pneumatic, or				1	1
-	gasoline					
Drill kit	1/2" variable speed	4			4	2
	Bits (1/2", 3/4", and 1")	1			1	2
Extension cord w/adapters	50' – 12/3 – 20 amp	2	2		4	8
Ellis clamps	4"x4"		8			8
Ellis jack	1		1	1	1	1
Ellis post screw jack	4"x4"		4	1	1	4
Framing hammer	16 ounce or larger	10	10	1	1	20
		10		1	1	20
Framing square	24"	2	2			4



PO Box 944246, Sacramento CA 94244-2460

Rescue Systems 2	Description	Exterior	Interior	Lifting &	Breaking &	Total 4
Equipment Standards	Description	Shores	Shores	Moving	Breaching	Modules
Fork lift or front loader	15,000 lbs. minimum			1		1
Generator, portable or 110v power supply	5 kw minimum with 5 gallons of fuel in safety fuel can	1	1		1	3
High lift jack				1		1
Level	4'	1	1			2
Level	6"	12	12			24
Lumber crayon	Red or blue	6	6	2		14
Lumber pencil		12	12	2		26
Nail gun, powder actuated (optional,		1	1			2
certification required)		1	1			2
Nail gun, pneumatic (framing type)	With pneumatic, gas, compressor, or bottles Appropriate hoses 100'+ 2 regulators 2 gun oil	1	1			2
Pneumatic shore kit (optional if	2'-6'					
available)	Regulator Hose Extensions and ends	3 each	3 each			6
Pipe, steel	Schedule 40 - 6'x11/2"			8		8
Pipe cutter (optional)	2" capacity					
Pry bar, pinch point	60"			6	2	8
Rebar cutter	³ ⁄4" electric/hydraulic				1	1
Rotary saw - gasoline	14" or 16" Belt adjusting tool Spare belt Spare spark plug				2	2
Rotary saw blades	14/16" carbide wood cutting				4	4
Rotary saw blades	14/16" metal cutting				4	4
Rotary saw blades	14/16" diamond blade				4	4
Rotary hammer	1 ¹ / ₂ " electric with depth range capability	1			2	3
Reciprocating saw - electric	6 metal blades 6 wood blades	1	1		1	3
Reciprocating saw – cordless (optional)	Battery with charger 6 metal blades 6 wood blades	1	1		1	
Rope kit <i>(optional)</i>	1 static kernmantle (75' utility) 3 orange webbing (20') 1 green webbing (5') 3 rescue pulleys (2" or 4") 2 prusik cords			1		1
Single jack hammer	3-4 lbs.	4	4		2	10
Sledge hammer	8-10 lbs.	1	1	optional	2	4
Speed square		12	12			24
Shovel	Round point	1				1
Shovel	Square point	1		<u> </u>		1
Tape measures	25'	12	12	2	2	28
Technical search device (optional)	Optical with articulating viewing				1	1
Tool kit	Miscellaneous tools	40	40			1
Utility knife	Razor knife with spare blades 100'	12	12		1	24
Utility rope Ventilation fan <i>(optional)</i>	With 20' ducting				1	1 1
Water can	Pressurized				1	1
Webbing	1"-15' long	1			8	8
PROPS					-	~
Concrete - slabs	4'x4'x6" #3 rebar 12" on center 2,500 psi 5 sack mix				12	12
Concrete - slabs	4'x4'x3" #3 rebar 12" on center 2,500 psi 5 sack mix				12	12
Concrete - pipe	48"x8'				2	2
Steel - plates	1/4"x4'x8' (can be scrap)				2	2



PO Box 944246, Sacramento CA 94244-2460

Rescue Systems 2 Equipment Standards	Description	Exterior Shores	Interior Shores	Lifting & Moving	Breaking & Breaching	Total 4 Modules
Steel – I Beam	Various lengths (can be scrap)				2	2
Steel – wire rope	1⁄2"x10'				1	1
Steel – Q decking	10'x2'x20 gauge				2	2
Wood – dunnage	4"x4"x8'				12	12
Concrete slabs	5'x8'x12" reinforced concrete slabs (6,000 lbs. each)			2		2
Concrete slabs	5'x10'x6"			1		1
Pipe shaped props	4'x8' solid reinforced concrete cylinder (15,000 lbs.)			1		1

SITE DEVIATION

In the event that a training site has a facility, structure, or prop that does not comply with the RS2 minimum site requirements and equipment standards, the site has the opportunity to apply for a site deviation. A RS2 Senior Instructor or designee submits to the Chief of State Fire Training a formal letter requesting site deviation. This letter must describe the site deviation in detail by listing:

- The need and parameters of the deviation.
- New or revised lesson plans linked to the deviation that ensures consistency with the standards and behavioral objectives of the approved RS2 curriculum.
- Demonstration, either live or through visual aids, of any deviated technique or procedure.

The Chief of State Fire Training will review the request for site deviation. Any deficiencies will be appropriately documented and discussed with the RS2 Senior Instructor or designee requesting the site deviation. If site deviation is denied, a provisional accreditation may be granted at this time. If a site is not approved, they have three (3) months to comply with the site requirements identified as deficient in the inspection report.

SITE ACCREDITATION PROCESS

Rescue Systems 2 Training Sites will be inspected for compliance with the RS2 minimum site requirements and equipment standards. Sites may be accredited as one of the following:

- Full Accreditation
 - A permanent-use site that fully meets the RS2 minimum site requirements and equipment standards.
- Temporary Accreditation
 - A short-term use site that meets the RS2 minimum site requirements and equipment standards.
 - Typically, these sites are in areas where permanent sites are not practical or available.
 - Accreditation is granted for the purpose of delivering a set number of courses.
 - Once the training is complete, the temporary accreditation is rescinded.

Full Accreditation

A RS2 Training Site representative submits to the Chief of State Fire Training a formal letter requesting full accreditation for a permanent site. This letter must describe the site in detail by listing the facilities, structures, work areas, materials, props, tools, and equipment available and ready for delivering a RS2 course. State Fire Training staff and/or a registered RS2 Senior Instructor, operating under the direction of the Chief of State Fire Training, will conduct an inspection of the RS2 Training Site. Any discrepancies or deficiencies will be appropriately documented and discussed with the site representative at the time of the inspection. Copies of all inspection documents and notes will be kept on file. The Chief of State Fire Training will notify the RS2 Training Site of their status after the inspection.

Temporary Accreditation

A registered RS2 Senior Instructor or designee submits to the Chief of State Fire Training a formal letter requesting temporary accreditation for delivering a RS2 course. This letter must describe the site in detail by listing the facilities, structures, work areas, materials, props, tools, and equipment available and ready for delivering a RS2 course. Photographs of each required structure, work area, and prop must be included in the application package. A completed "Request for Rescue Systems Course Scheduling" providing the dates of the upcoming course and all instructors must be included in the application package. Temporary accreditation must be requested at least ninety (90) days before the beginning date of the course.



COURSE INFORMATION AND REQUIRED MATERIALS PO Box 944246, Sacramento CA 94244-2460

Appeals

Step 1

The RS 2 Training Site representative must submit in writing to the Chief of State Fire Training all evidence to support reversing SFT's denial of site accreditation. After review of all submitted materials, the Chief of State Fire Training will notify the site representative in writing of the decision to uphold, modify, or withdraw the denial of accreditation. Step 2

If the denial of accreditation is upheld, the site representative may appeal the findings to the Assistant State Fire Marshal. The RS2 Training Site representative must submit in writing all evidence to support reversing the decision of the Chief of Education and Training. After review of all submitted materials, the Assistant State Fire Marshal will notify the site representative in writing of the decision to uphold, modify, or withdraw the denial of accreditation. The decision of the Assistant State Fire Marshal is final.