



**CALIFORNIA FIRE FIGHTER**

**JOINT APPRENTICESHIP COMMITTEE**

# **RULES AND REGULATIONS**

**2011**

A. GENERAL

Each apprentice to the Heavy Fire Equipment Operator occupation shall be afforded the opportunity to receive the work experience, classroom instruction, drill ground training, and the academic and technical instruction necessary to attain journey person recognition. Such apprentice Heavy Fire Equipment Operator shall diligently apply themselves to their training, related instruction, and work experience so as to become effective and efficient in all the various fire prevention, fire suppression, and other functions of the individual employer.

B. MINIMUM QUALIFICATIONS FOR APPRENTICESHIP

1. Each apprentice must meet the minimum qualifications for apprenticeship as stated in Section 8 of the Rules and Regulations.
2. Each apprentice must be a journey level or have verifiable equivalent experience and training as a heavy equipment operator.
3. Individual employers may specify other requirements for their specific jurisdiction.

C. ACADEMY TRAINING

An apprentice Heavy Fire Equipment Operator shall attend and successfully complete a minimum 300 hour Heavy Fire Equipment Operator academy.\* This academy shall be intensified classroom and drill ground instruction and simulation exercises representing actual field conditions covering the following subjects:

1. Emergency Vehicle Operations
2. Highway Safety
3. Defensive Driving
4. Radio Use
5. Heavy Equipment Field Operations
6. Heavy Equipment Maintenance and Inspections
7. Wildland Fire Behavior- S 290
8. Dozer Strategies and tactics
9. HFEO Safety Skills (Dozer)
10. Basic Land Navigation
11. HFEO DEEP and HFEO Case Studies
12. Archaeological Awareness
13. Fire Suppression Repair and Mitigation
14. Safety and Survival
15. Working with Hand Crews
16. Basic Firing Operations
17. Wildland Urban Interface Operations
18. Working with Aircraft, Type 3 engines and other types of emergency equipment
19. Soils Recognition for HFEO

\* A local agency may, after consultation with the CFFJAC staff, reorganize, add or substitute subjects taught during academy and related and supplemental instruction to better meet department needs.

# HEAVY FIRE EQUIPMENT OPERATOR

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## D. ON-THE-JOB-TRAINING

The major work processes in which apprentice Heavy Fire Equipment Operator will be trained (although not necessarily in this order) and the approximate hours (not necessarily continuous) to be spent on each are:

Work Processes	Approximate Hours
1. Operates specialized heavy fire equipment for fire suppression and control, salvage, wildland protection, conservation operations, and earthquake, storm or flood damage prevention and/or mitigation .....	2000
2. Reads and interprets maps/GPS .....	200
3. Performs emergency repairs on mobile heavy fire equipment .....	150
4. Combats wildland and other fires .....	800
5. Performs incident size up .....	200
6. Operates communication equipment.....	100
7. Performs maintenance and minor repairs to heavy fire equipment .....	500
8. Maintains records, writes and submits reports.....	300
9. Assists in public education and information activities.....	200
10. Maintains station and grounds.....	200
11. Maintains physical fitness.....	550
12. Directs inmate and paid personnel crews on fire line and other assignments .....	100
13. Performs safety inspections on heavy fire equipment.....	400
14. Trains others in the safe practices in the use and repair of heavy equipment and vehicles ....	200
15. Provides emergency medical assistance.....	100
16.	
<b>TOTAL HOURS: .....</b>	<b>6000</b>

## E. RELATED AND SUPPLEMENTAL INSTRUCTION

An apprentice Heavy Fire Equipment Operator shall, while on duty, attend and satisfactorily complete not less than 144 hours of related and supplemental instruction per year in approved subjects such as:

1. Pre and Post-Trip Inspection
2. Loading and Off-Loading
3. Direct Attack
4. Indirect Attack
5. Winching Operations
6. Watch Out Category
7. Night Operations
8. Operator Fatigue
9. Maps and GPS
10. Terrain, Weather, Fuels, and Soil Conditions
11. Operation and Use of Heavy Fire Equipment
12. Cost Estimation
13. Records, Reports, and Documentation
14. Supervision
15. Fabrication
16. Purchasing
17. Heavy Fire Equipment Safety Inspections
18. Hazard Reduction
19. Fire Suppression and Prevention

## HEAVY FIRE EQUIPMENT OPERATOR

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20. Fuel Breaks, Fire Roads, and Trails
21. Fire Lines and Containment Separations
22. California Vehicle Code
23. ICS
24. Archeological Awareness
25. Instructional Techniques
26. Building Construction
27. Vehicle Extrication
28. Salvage and Overhaul
29. Utilities
30. First Responder/EMT Continuing Education
31. Size-up and Report on Condition
32. Wildland Firefighter Safety and Survival
33. Fire Behavior, Strategy, and Control
34. Personal Fire Protection Equipment
35. Wildland Fire Fighting and Control
36. Swamper Proficiency Standards
37. Heavy Fire Equipment Preventive Maintenance, Service and Repair
38. Communication Equipment and Procedures
39. Tool Maintenance
40. Chemical retardants
41. Smoke Reading
42. Firefighting Strategy and Tactics
43. Personnel, Labor Relations, and Issues of Diversity and Harassment
44. Wildland Fire Tactics
45. Hazardous Materials
46. Pre-Incident Planning
47. Hydraulic Operations
48. Interface Operations
49. Safety Zones and Escape Routes
50. Review Dozer Incidents/Investigative Reports
51. Working with Aircraft
52. Interagency Interactions
53. Working with Hand Crews
54. Federal, State, and Local Responsibility Area Protocols
55. Basic Computer Operations
56. Trench Rescue
57. Earthquake, Storm or Flood Damage Prevention and/or Mitigation
58. Terrorism Consequence Management (TCM)
59. Ethics

### F. TERM OF APPRENTICESHIP

The term of apprenticeship for the Heavy Fire Equipment Operator shall be 36 months.

### G. PROBATIONARY PERIOD

An apprentice Heavy Fire Equipment Operator shall serve a probationary period to demonstrate the willingness and ability to perform the arduous duties demanded of a Heavy Fire Equipment Operator at fires and other scenes of emergencies, as well as, the willingness and ability to perform the routine duties required in the fire station and elsewhere as assigned. Such probationary period shall consist of the period established by the individual employer in accordance with the Collective Bargaining Agreement/Memorandum of Understanding, or past practices when a formal agreement does not exist.

## HEAVY FIRE EQUIPMENT OPERATOR

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### H. JOURNEYPERSON RECOGNITION

An apprentice HFEO may attain journeyperson recognition as a Heavy Fire Equipment Operator upon documentation of successful completion of:

1. A minimum of 300 hour academy as described herein;
2. 36 months of apprenticeship;
3. A minimum of 144 hours of related and supplemental instruction during each 12 months of apprenticeship.