

## SUMMARY OF JAC CODES (1000)

(No. 14 June 1990)

### SUMMARY OF JAC CODES

#### JAC PRIMARY CODES AND SPECIFIC CODES

A Academy  
B Prevention  
C Emergency Medical  
D Rescue Practices  
E Fire and Arson Investigation  
F Preventative Maintenance  
G Vehicle Repair  
H Vehicle Operation and Pump Use  
I Portable and Fixed Accessory Equipment  
J Administration, Management or Supervision  
K Instructor Training  
L Emergency operations  
M Office and Clerical Skills  
N Construction Technology and Fire Protection Systems  
O Hazardous Materials  
P Aircraft/Airfield Operations  
Q Incident Command System

#### JAC TYPE CODES

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The following are JAC Primary Codes and JAC Specific Codes. The JAC Specific Codes define the specialized area of training within each JAC Primary Code. Any "missing" JAC Specific Codes are not applicable to CDF apprentices and, therefore, are not listed below. These JAC Primary and JAC Specific Codes shall be listed in the JAC Primary Code column and the JAC Specific Code column, respectively, on the CDF 304 (Revised), Monthly Training Report.

JAC PRIMARY CODE A: ACADEMY

Any training conducted as part of an Apprentice Academy, i.e., Basic Fire Control and Basic Fire Fighting courses, as established in the CFFJAC Rules and Regulations and approved by the SubJAC.

When using JAC Primary Code A on the CDF 304 (Revised), Monthly Training Report, leave JAC Specific Code and JAC Type Code columns blank. There are no JAC specific area of study codes required when reporting apprentice academy training.

JAC PRIMARY CODE B: PREVENTION

The following are JAC Specific Codes under JAC Primary Code B.

Any training in the specific areas of study listed here:

- A. Codes, Ordinances & Laws  
including interpretation and application of Department, Local, County, State and Federal codes, ordinances, laws, policies and recognized fire protection and safety standards.
- B. Inspection Practices (Fire and Life Safety)  
including permits, licenses, notices, citations, identification of common and special hazards, making inspections and pre-planning of structures, aircraft and marine vessels.
- C. Public Education, Relations and Information Activities  
including need for establishing good public relations, making public appearances, conducting school programs, industrial, business programs and demos, preparation of news releases and addressing complaints from the public.
- D. Plan Checking  
including new construction, water supply, fire detection and alarm systems, built-in fire protection systems and identification of structural features and hazards.

JAC PRIMARY CODE B (CONT): PREVENTION

- E. Records and Reports including filling out and maintaining files, CFIRS, inspection logs and related reports.

JAC PRIMARY CODE C: EMERGENCY MEDICAL

The following are JAC Specific Codes under JAC Primary Code C.

Any training in the specific areas of study listed here:

- A. Fire Aid, Initial Training
- B. Fire Aid, Continuing Education
- C. CPR, Initial Training
- D. CPR, Continuing Education
- E. First Responder, Initial Training
- F. First Responder, Continuing Education
- G. EMT IA, Initial Training
- H. EMT IA, Continuing Education
- I. EMT NA/FS, Initial Training
- J. EMT NA/FS, Continuing Education

Note: Certification dates may be included in the comments section. Those listed will be recorded by the CFPJAC.

JAC PRIMARY CODE D: RESCUE PRACTICES

The following are JAC Specific Codes under JAC Primary Code D.

Any training in the specific areas of study listed here:

- A. Extrication Procedures, Methods and Techniques including identification, use, operation and maintenance of cutting, fusing, sawing, spreading, prying, pulling and striking tools as they relate to extrication.

JAC PRIMARY CODE D (CONT): RESCUE PRACTICES

- B. Search and Rescue Procedures, Methods and Techniques including use of ropes, life lines, life line signals, rappelling, lifts, carries, drags, shoring, cribbing, trenching and tunneling, litter basket use, hoisting and elevator, mine, cave and water/ice rescues.
- C. Evacuation Procedures, Methods and Techniques including all types of situations, interior of a building, aircraft or marine vessel and exterior including a geographic area.
- D. Human Behavior Related to Rescuers/Victims including critical incident stress and psychotic personalities.
- E. Use of Non-Fire Rescue Resources

JAC PRIMARY CODE E: FIRE AND ARSON INVESTIGATION

The following are JAC Specific Codes under JAC Primary Code E.

Any training in the specific areas of study listed here.

- A. Origin and Cause Determination
- B. Evidence Collection, Identification and Preservation
- C. Estimating Fire Loss Data
- K. Investigation Reports and Records including filling out FIRS and Associated Local, State and/or Federal crime reports.

JAC PRIMARY CODE F: PREVENTATIVE MAINTENANCE

The following are JAC Specific Codes under JAC Primary Code F.

Any training in the specific areas of study listed here:

- A. Preventative Maintenance - Light Vehicles including all light vehicles not in other maintenance categories, servicing, minor repairs, parts replacement, adjusting, lubricating, inspecting and testing.

JAC PRIMARY CODE F (CONT): PREVENTATIVE MAINTENANCE

- B. Preventative Maintenance -Power and Hand Tools including inspecting, adjusting, sharpening, lubricating, minor repairs and testing.
- C. Preventative Maintenance - Fire Engines & Water Tenders including all Engines and Water Tenders not in other categories, servicing, minor repairs, parts replacement, adjusting, lubricating, inspecting and testing.
- D. Preventative Maintenance - Fire Suppression Tools including hose nozzles and couplings, ladders, appliances, extinguishers, hydrants, breathing apparatus and ropes.
- F. Preventative Maintenance - Heavy Equipment including dozers, motor graders, loaders and dump truck servicing, minor repairs, parts replacement, adjusting, lubrication, inspection and testing.

JAC PRIMARY CODE G: VEHICLE REPAIR

Not applicable to CDF apprentices.

JAC PRIMARY CODE H: VEHICLE OPERATION AND PUMP USE

The following are JAC Specific Codes under JAC Primary Code H.

Any training in the specific areas of study listed here:

- A. Vehicle Code (Laws, Rules and Regulations) including Federal, State and Local laws, regulations, ordinances and rules governing travel, use and operation of Department vehicles.
- B. Driver Training including driver safety, traffic laws, defensive driving techniques, use of warning devices, interpreting gauges and meters, trouble shooting and apparatus spotting.
- C. Emergency Vehicle Operation including laws relating to emergency operation of Fire Department vehicles, defensive driving techniques under emergency conditions and driving/operating under emergency conditions.

JAC PRIMARY CODE H (CONT): VEHICLE OPERATION AND PUMP USE

- D. Pump Theory and Operation  
including routine maintenance, pump principles, various types of fire service pumps, Annual Pumper Service test and identification of unsafe pumping conditions.
- E. Hydraulics  
including factors affecting fire ground water supply, hydraulic calculations and augmenting built-in fire suppression systems.
- F. Winches  
including identification, use, capabilities, operation, safety, maintenance and repairs.
- G. Radio (On Board Communications Equipment)  
including basic dispatching procedures, use and coordination of multiple radio channels for Command and Tactical operations and use of on-board data terminals/computers, hand held equipment and cellular telephones.
- H. Aerial Ladder/Elevating Platform Operations  
including routine maintenance, identifying unsafe conditions, Master Stream operation and range, apparatus hydraulic, mechanical and electrical systems, safety procedures and system overrides.

JAC PRIMARY CODE I: PORTABLE & FIXED ACCESSORY EQUIPMENT

The following are JAC Specific Codes under JAC Primary Code I.

Any training in the specific areas of study listed here:

- A. Ground Ladder Construction and Maintenance  
including identification of types, terminology, construction, testing and inspection.
- B. Hose, Nozzles, Fittings and Related Appliances  
including identification and classification of hose and threads, inspection and testing.
- C. Master Stream Appliance and Devices  
including identification, use, operation and elevated master streams.
- D. Fire Hydrants  
including types, location, use, inspection and testing.

JAC PRIMARY CODE I (CONT): PORTABLE & FIXED ACCESSORY EQUIPMENT

- E. Portable Fire Extinguishers  
including identification, classification, use, operation  
and inspection.
- F. Breathing Apparatus  
including identification, use, operation and inspection.
- G. Ropes, Knots, and Hitches  
including identification, classification, inspection,  
tying of knots, tying off equipment, securing ropes  
and testing.
- H. Rope Procedures and Technical Applications  
including rigging, rappelling and safety.
- I. Ventilation Tools  
including identification, use and operation of  
cutting, breaking, air moving tools and equipment related  
to ventilation.
- J. Forcible Entry Tools  
including identification, use, operation, procedures,  
methods and techniques of cutting, boring, fusing,  
sawing, battering, pulling, carrying, digging, prying,  
striking tools and equipment related to forcible entry.
- K. Miscellaneous Tools and Equipment  
including identification, use and operation of any hand  
or power tool not covered in other sections, hoisting,  
pulling, lighting, generating, detection and wildland  
tools/equipment.

Note: Accessory equipment includes all types of  
equipment utilized by fire personnel which is  
supplemental to the performance of that job,  
task or occupational function.

JAC PRIMARY CODE J: ADMINISTRATION, MANAGEMENT OR SUPERVISION

The following are JAC Specific Codes under JAC Primary Code J.

Any training in the specific areas of study listed here:

- A. Personnel  
including Local, State and Federal Labor laws,  
recruitment, supervision and personnel management,  
leadership, evaluation and counseling, psychology, labor  
organizations and relations, EEOC regulations, OSHA  
regulations, NIOSH and NFPA Standards.
- B. Dispatch  
including public fire alarm systems, radio and telephone  
equipment operations, procedures, techniques and  
S.O.P.'s, basic dispatching procedures, computer aided  
dispatching, mutual aid coordination, resource ordering,  
emergency resource directory, tape recording systems,  
street cards and maps used in dispatching.
- C. Fire Service Organizations  
including Local, State and Federal organizations.
- D. Planning  
including short, medium and long range plans, evaluating  
and analyzing trends and changes in population,  
construction, technology and fire protection equipment  
and developing emergency plans.
- E. Coordinating  
including organizing and initiating work and delegating  
work and authority.
- F. Communications Skills (Verbal, Written, etc.)  
including public speaking, active listening skills and  
report writing techniques.
- G. Public Relations  
including developing public information presentations,  
displays and visual aids, developing lectures and  
communicating effectively with the news media.
- H. General Education (Training not covered in other  
Primary Subject Areas) including mathematics, physics,  
chemistry, sociology, psychology, etc.

JAC PRIMARY CODE J (CONT): ADMINISTRATION, MANAGEMENT OR SUPERVISION

- I. Supervision  
including effective supervision techniques, conflict management, time management, team building, affirmative action practices, progressive discipline procedures, time reporting and performance evaluations.
- J. Management  
including time, resource and personnel management techniques, developing reports, specifications, requisitions and budgets, systems of planning, organizing, directing, delegating, initiating and following up of work, developing policies, procedures and management controls and testing and evaluation techniques related to personnel recruitment.
- K. Orientation  
including response area familiarization, building walkthroughs, rural/wildland familiarization, outside agency familiarization and ride-along on field units for non-emergency and emergency familiarization.
- L. Policies and Procedures  
including General Orders, Standard Operating Procedures, Department Handbooks, MOU's, personnel regulations, retirement and Workers Compensation, time, training, injury and accident reports, personnel evaluation forms and conservation crew rules, regulations and use.
- M. Laws and Regulations  
including Local, State and Federal laws and regulations.
- N. Physical Fitness  
including personal fitness awareness, standards, evaluation and counseling. (Does not include workout time, volleyball, etc.)
- O. Safety  
including safety training, back injury prevention, etc.

JAC PRIMARY CODE K: INSTRUCTOR TRAINING

The following are JAC Specific Codes under JAC Primary Code K.

Any training in the specific areas of study listed here:

- A. Methods of Instruction  
including concepts of learning, course development and lesson development.
- B. Instructional Techniques  
including planning, organizing and managing instructional activities.

Note: Instructor training is defined as those learning activities directly associated with learning to teach. This does not include actual teaching except as a part of a specific assignment in a formal course.

JAC PRIMARY CODE L: EMERGENCY OPERATIONS

The following are JAC Specific Codes under JAC Primary Code L.

Any training in the specific areas of study listed here:

- A. Fundamentals of Fire Behavior  
including classes of fires, theory and fundamentals of combustion, heat transfer and factors affecting fire behavior and development.
- B. Extinguishing Agents  
including water, foams, powders, gases, application and uses.
- C. Ground Ladder Evolutions  
including carrying, raising, lowering, climbing, locking-in, footing, use above ground and use as improvised equipment.
- D. Hose Evolutions  
including rolling, carrying, connecting, extending, operating, bundling, loading, utilizing lays, connecting to standpipes, sprinkler systems and hydrants.

JAC PRIMARY CODE L (CONT): EMERGENCY OPERATIONS

- E. Wildland Hose Evolutions  
including progressive hose evolutions, mobile pumping  
procedures, hose lay techniques, rolling, bundling,  
carrying and loading.
- F. Fire Fighting Tactics and Strategy - Structural
- G. Fire Fighting Tactics and Strategy - High Rise
- H. Fire Fighting Tactics and Strategy - Wildland
- J. Fire Fighting Tactics and Strategy - Transportation  
Accidents including planes, boats and trains.
- K. Salvage and Overhaul
- L. Fire Fighting Tactics and Strategy - Major Disasters  
including natural and civil disturbance.
- M. Fire Fighting Tactics and Strategy - EMS/Multi-Casualty  
Incidents.
- O. Mutual Aid  
including use of Local, State and Federal mutual aid  
systems and plans.

JAC PRIMARY CODE M: OFFICE AND CLERICAL SKILLS

Not applicable to CDP apprentices.

JAC PRIMARY CODE N: CONSTRUCTION TECHNOLOGY AND  
FIRE PROTECTION SYSTEMS

The following are JAC Specific Codes under JAC Primary Code N.

Any training in the specific areas of study listed here:

- A. Building Construction  
including terminology, fire control characteristics and  
effects of fire control operations on structural  
materials.
- B. Heating, Ventilation and Air Conditioning Systems  
including terminology, fire department use and effects on  
fire spread.

JAC PRIMARY CODE N (CONT): CONSTRUCTION TECHNOLOGY AND  
FIRE PROTECTION SYSTEMS

- C. Build-in Fire Protection Systems including sprinkler system components, inspection, testing, operation and restoration to service and standpipe components, inspection, testing, operation and restoration to service.

JAC PRIMARY CODE O: HAZARDOUS MATERIALS

The following are JAC Specific Codes under JAC Primary Code O.

Any training in the specific areas of study listed here:

- A. Hazardous Materials Identification including use of data, survey equipment and on-scene identification techniques.
- B. Hazardous Materials Incident Handling Techniques and Procedures including risk assessment, emergency response equipment, control and containment techniques, evacuation procedures, decontamination and recovery techniques, etc.

G Hazardous Materials Inspection Practices including permits, licenses, notices, citations, identification of common and special hazards, pre-planning and making inspections.

JAC PRIMARY CODE P: AIRCRAFT/AIRFIELD OPERATIONS

The following are JAC Specific Codes under JAC Primary Code P.

Any training in the specific areas of study listed here:

- A. Aircraft Familiarization including fixed wing, lighter than air and rotary aircraft, ejection systems, pins, downlocks, ordinance, composite fibers, LOX location, battery locations, entry points and danger areas.
- C. Airfield Familiarization including runways, taxiways, tamps, parking areas and location of all structures on or about the airfield.
- D. Fire Fighting Strategy and Tactics and SOP's.

JAC PRIMARY CODE Q: INCIDENT COMMAND SYSTEM

The following are JAC Specific Codes under JAC Primary Code Q.

Any training in the specific areas of study listed here:

- A. Basic ICS (I-220)
- D. Check In Recorder/Status Recorder (I-248)

JAC TYPE CODES

The following are JAC Type Codes to be used to explain what type of training was presented in the given subject area.

- A. Didactic Tested
- B. Didactic Untested
- C. Manipulative Tested
- D. Manipulative Untested
- E. Directed Study Tested
- F. Directed Study Untested
- G. Community College Hours
- I. Course Instructor

**DIDACTIC** means any instruction which can be associated with technical knowledge where no manipulative skills are required to be performed in the evaluation step of the instruction. Most classroom training involving lectures and discussion falls into this category.

**MANIPULATIVE TRAINING** means any instructional activity in which a manual job or task is performed during the evaluation step of instruction.

**DIRECTED STUDY** means any instructional activity in which the learning activities take place outside of the classroom or drillground environments. This category includes evaluated reading assignments and self paced instruction courses.

**COMMUNITY COLLEGE HOURS** means any training done by or through an Educational Institution not associated with the California Fire Fighter Joint Apprenticeship Program.

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