



## TRAINING ANNOUNCEMENT

# Fire Apparatus Operator (FAO)

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- Date: February 7, 9, 10, 11, 12, & 13, 2011
- Time: 0800 – 1700 – weekends  
1800 – 2200 - weekdays
- Where: Station 35
- Sign-ups: Call the Fire District Office to sign-up for this training @ 246-6209.
- Sign-up deadline: January 24, 2011
- Instructors: Lead Instructor Tracy Huttman
- Pre-requisites: NFPA Firefighter 1 or II, and a current Nevada drivers license with a Class B/F endorsement.
- Questions: Contact Training Chief Kielty at the Fire District Office.

***Note: This class is certified through the Nevada State Fire Marshal's Office, a State written exam is required for certification.***

# CLCFD Fire Apparatus Operator

## Course Goal:

To provide the student with sufficient skills, knowledge, and abilities to perform the job of Fire Apparatus Operator in regards to pumping an engine, brush, or tender.

## Course Pre-requisites:

1. Completion of NFPA Firefighter 1 certification.
2. Class B/F license.

## Performance Objectives<sup>1</sup>:

1. Perform the routine tests, inspections, and servicing functions specified in the following list in addition to those in the pre-trip inspection, given a fire department pumper and its manufacturer's specifications, so that the operational status of the pumper is verified:
  - a. Water tank and other extinguishing agent levels (if applicable)
  - b. Pumping systems
  - c. Foam systems
2. Produce effective hand or master streams, given the sources specified in the following list, so that the pump is engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems:
  - a. Internal tank
  - b. Pressurized source
  - c. Static source
  - d. Transfer from internal tank to external source
3. Pump a supply line of 65 mm (2½ in.) or larger, given a relay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the correct pressure and flow are provided to the next pumper in the relay.
4. Produce a foam fire stream, given foam-producing equipment, so that properly proportioned foam is provided.
5. Supply water to fire sprinkler and standpipe systems, given specific system information and a fire department pumper, so that water is supplied to the system at the correct volume and pressure.

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<sup>1</sup> Source: NFPA 1002 – Standard on Fire Apparatus Driver/Operator Professional Qualifications, Chapter 4, 2003 Edition.

**(A) Requisite Knowledge.**

1. Manufacturer's specifications and requirements, and policies and procedures of the jurisdiction.
2. Hydraulic calculations for friction loss and flow using both written formulas and estimation methods
3. safe operation of the pump
4. problems related to small-diameter or dead-end mains, low-pressure and private water supply systems
5. hydrant coding systems
6. reliability of static sources
7. Proportioning rates and concentrations
8. foam equipment assembly procedures
9. foam system limitations
10. foam system manufacturer's specifications
11. Calculation of pump discharge pressure
12. hose layouts
13. location of fire department connection
14. alternative supply procedures if fire department connection is not usable;
15. operating principles of sprinkler systems
16. operating principles of standpipe systems

**(B) Requisite Skills.** The ability to use hand tools, recognize system problems, and correct any deficiency noted according to policies and procedures. The ability to:

1. position a fire department pumper to operate at a fire hydrant
2. at a static water source
3. power transfer from vehicle engine to pump
4. draft
5. operate pumper pressure control systems
6. operate the volume/pressure transfer valve (multistage pumps only)
7. operate auxiliary cooling systems
8. make the transition between internal and external water sources
9. Assemble hose lines, nozzles, valves, and appliances.
10. The ability to operate foam proportioning equipment and connect foam stream equipment.