



## **Job Performance Review**

## **Fire Department Connections for Sprinkler Systems**

## **Individual Level Competency**

### **JPR Title**

Fire Department Connections for Automatic Sprinkler Systems

### **JPR Number**

JPR-15-1CC

### **Reference**

NFPA 1001 – Standard for Firefighter Professional Qualifications  
NFPA 13 – Standard for the Installation of Automatic Sprinkler Systems  
IFSTA Essentials of Firefighting  
ATFD Standards of Cover and Risk Analysis

### **Performance Criteria**

Firefighter / Driver Operator is able to connect to and supply the fire department connection(FDC) for an automatic sprinkler system. Performance criteria will include the following:

- ✓ Properly identifies the workings of a fire department connection
- ✓ Able to identify the various fittings and adapters which may be needed to make the connection
- ✓ Makes the appropriate hose connection for the connection
- ✓ Is knowledgeable of the pressures which should be used to supply the system and the rationale for these pressures
- ✓ Can identify the difference between a riser FDC and a pit FDC
- ✓ Demonstrates the application of tank water for the system prior to a supplied water source
- ✓ Establishes and maintains a supplied water source for the application
- ✓ Executes proper de-mobilization protocols and techniques

### **Time Parameters**

5 minutes or less to supply the fire department connection

### **Safety Precautions**

Safe operations and control of all equipment  
Hand protection when working around the FDC  
Tripping and fall hazards minimized

**Procedure**

The driver of the apparatus will be cognizant of the location of nearby fire hydrants in relation to the FDC.

When instructed to connect to the FDC, the driver shall stretch 3" hose to such and make connection. Checking for and removing any debris or objects in the FDC, the operator will make the connection. Use caution while doing this for any sharp objects, etc.

The driver shall be aware of the area hydrants to ascertain if this will be a stand alone operation or if an additional engine will be needed.

Prepare to back the engine up with a public water supply.

If instructed to do so, the operator will pressurize the FDC. When doing so, the pump operator shall initially pressurize the FDC with tank water.

Once you have established that you are indeed flowing into the system, then the operator will back up the apparatus with a supplied public water source.

The system should be pressurized to 125-150 psi.

**Under no circumstances should the pressure being supplied to the FDC exceed 175 psi.**

Sprinkler systems are designed for a maximum working pressure of 175 psi. A serious impairment could result to the sprinkler system in the building if pressures exceed 175 psi.

Under certain circumstances, of which judgment should be used, a second 3" hose will be connected to the FDC.

**Firehouse Software Evaluator Notes**

Link to "Sprinkler Systems" or "Firefighting Evolutions"

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