

1B - Pumping Apparatus Operations Required Activities

Activity 3-1-1: Effective Hand or Master Stream

Produce an Effective Hand or Master Stream

Activity 3-1-1

NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications (2014)

- **Paragraph 5.2.1**

Produce effective hand or master stream, 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:

- (1) Internal tank
- (2) Pressurized source
- (3) Static source
- (4) Transfer from internal tank to external source

Format: Individual

Time Frame: Open (based on a total of 22:00 hours for skills practice and completion)

Description

This activity provides students with an opportunity to practice the job performance requirement from the four identified water sources.

Materials

- Pumping apparatus
- Pressurized water source (hydrant or supply line from another pumping apparatus)
- Static water source (drafting pit, portable tank, or natural water source)
- Hard suction hose
- Tools and equipment
- Personal protective clothing

Instructor Notes

- These four skills identified under JPR 5.2.1 shall be demonstrated prior to the students practicing and completing each skill.

Pumping Apparatus Operations

Activity 3-2-1: Relay Pumping Operations

Relay Pumping Operation

Activity 3-2-1

NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications (2014)

- **Paragraph 5.2.2**

Pump a supply line of 2½" 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.

Format: Individual

Time Frame: Open (based on a total of 22:00 hours for skills practice and completion)

Description

This activity provides students with an opportunity to practice the job performance requirement to pump water from one apparatus to the next using a 2½" or larger supply line.

Materials

- Two (2) pumping apparatus
- Tools and equipment
- Personal protective clothing

Instructor Notes

- This skill identified under JPR 5.2.2 shall be demonstrated prior to the students practicing and completing the skill.

Pumping Apparatus Operations

Activity 3-3-1: Foam Fire Stream

Produce a Foam Fire Stream

Activity 3-3-1

NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications (2014)

- **Paragraph 5.2.3**

Produce a foam fire stream, given foam-producing equipment, so that properly proportioned foam is provided.

Format: Individual

Time Frame: Open (based on a total of 22:00 hours for skills practice and completion)

Description

This activity provides students with an opportunity to practice the job performance requirement to properly proportion the foam and produce a foam fire stream.

Materials

- Pumping apparatus
- Foam portioning system
- Foam or foam substitute
- Tools and equipment
- Personal protective clothing

Instructor Notes

- This skill identified under JPR 5.2.3 shall be demonstrated prior to the students practicing and completing the skill.

Pumping Apparatus Operations

Activity 3-4-1: Fire Sprinkler or Standpipe Systems

Supply Water to Fire Sprinkler or Standpipe Systems

Activity 3-4-1

NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications (2014)

- **Paragraph 5.2.4**

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.

Format: Individual

Time Frame: Open (based on a total of 22:00 hours for skills practice and completion)

Description

This activity provides students with an opportunity to practice the job performance requirement to supply water to fire sprinkler and standpipe systems at the correct volume and pressure.

Materials

- Pumping apparatus
- Sprinkler system or mockup appliance
- Standpipe system or mockup appliance
- Tools and equipment
- Personal protective clothing

Instructor Notes

- This skill identified under JPR 5.2.4 shall be demonstrated prior to the students practicing and completing the skill.