

DELAWARE STATE FIRE SCHOOL
For Your Instruction: In-Service Drill

LADDERS

PURPOSE

To conduct refresher training in the use of fire department ground ladders.

OBJECTIVE

To successfully complete this drill, a participant will:

1. Carry, place, raise, and climb fire department ground ladders.
2. Identify ground ladder terminology:
 - a. Butt
 - b. Tip
 - c. Fly
 - d. Bed
 - e. Beam
 - f. Rungs
 - g. Hook
 - h. Halyard
 - i. Dogs/pawls
3. Demonstrate the techniques of cleaning and inspecting fire department ground ladders.

EQUIPMENT

1. Fire department ground ladders:
 - a. Extensions
 - b. Wall/straight
 - c. Roof
 - d. Collapsible
2. Cleaning materials.

SAFETY CONSIDERATIONS

1. Use of fire department issued protective equipment.
2. Obtain a large, adequately lighted area.
3. Drill Leader must be responsible for being familiar with the evolutions and insuring adequate personnel are present.

REFERENCE

"Essentials of Firefighting", Seventh Edition

EVOLUTION #1 TERMINOLOGY, CLEANING, AND INSPECTIONS

Have participants identify the terminology of fire department ground ladders including:

- | | |
|------------|------------------|
| 1. Butt | 6. Roof hooks |
| 2. Tip | 7. Dogs/pawls |
| 3. Fly | 8. Beams/trusses |
| 4. Bed | 9. Rung |
| 5. Halyard | 10. Sensor label |

Have participants identify ladder types available to their fire department.

Have participants clean ladders, using soap, water, and brushes.

Wipe down with cloths.

Inspect for:

- | | |
|---------------------------|-----------------|
| a. Slivers | d. Loose parts |
| b. Frayed halyards/cables | e. Cracks |
| c. Bent rungs/beams | f. Unusual wear |

EVOLUTION #2 LADDER CARRIES

The participants shall be able to remove/replace the fire department ground ladders from their apparatus.

The participants shall be able to select the type of fire department ground ladders used for a specific job.

The participants shall demonstrate proper lifting and lowering techniques.

The participants shall demonstrate the following:

- Shoulder carry
- High shoulder carry
- Two member shoulder carry

- Underarm carry
- Arm-length carry
- Flat shoulder carry
- Alley carry

The participants shall demonstrate proper positioning of ladders for:

- Outside ventilation
- Rescues/firefighter access
- Hose stream operations

EVOLUTION #3 RAISES/LOWER

The participants shall demonstrate the following:

- One man raise with 24' ladder
- Pivoting/rolling an extended ladder
- Two person beam raise
- Two person flat raise
- Three person raise using an extension ladder
- Four person raise

The participant shall demonstrate:

- Heeling/footing a ladder
- Tying in the ladder halyard

EVOLUTION #4 CLIMBING/WORKING OFF LADDERS

The participant shall demonstrate climbing:

- Straight/wall ladder
- Extension ladder
- Placing roof ladder on roof for use

The participant shall demonstrate the use of:

- Safety belt, if available
- Leg Locks
- Passing another firefighter
- Assisting victims on ladders
- Carrying hand tools while ascending/descending
- Water application off of a ground ladder

CONCLUSION

At the conclusion of the skills the Drill Leader will do the following:

1. Re-inspect the equipment for any damage or excessive wear.
2. Secure all equipment as per department policy.
3. Secure the training area.

Date of Original: 09/00