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        f. Rungs
   b. Tip         g. Hook
   c. Fly         h. Halyard
   d. Bed         i. Dogs/pawls
e. Beam
3. Demonstrate the techniques of cleaning and inspecting fire department ground ladders.

EQUIPMENT

1. Fire department ground ladders:
   a. Extensions     c. Roof
   b. Wall/straight  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
2. Tip
3. Fly
4. Bed
5. Halyard
6. Roof hooks
7. Dogs/pawls
8. Beams/trusses
9. Rung
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.

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