



Fire Protection Training

Procedures Handbook 4300

LADDERS

TOPIC: Types of Fire Service Ground Ladders Service

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will list and describe the different types of fire service ground ladders.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Various ladders
- Appropriate visual aids
- Audio visual equipment

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 5

PREPARATION: The ladder is a basic tool firefighting tool. A variety of types are available to meet a wide spectrum of firefighting tasks. It is important that the types of ladders carried on your apparatus meet your local needs and that you are proficient in their use.



Fire Protection Training

Procedures Handbook 4300

TYPES OF FIRE SERVICE
GROUND LADDERS

PRESENTATION	APPLICATION
<p>I. LADDER TYPES</p> <p>A. Single Ladder</p> <ol style="list-style-type: none">1. Single section2. Fixed length<ol style="list-style-type: none">a. Lengths vary from 6-32 feetb. The most common lengths ranging from 12-24 feet3. The primary advantage of this ladder is that it can quickly be placed into service by a single firefighter <p>B. Roof Ladder</p> <ol style="list-style-type: none">1. A single ladder with metal hooks attached to the tip2. Hooks are nested between the beams at the head of the ladder3. Hooks are used to:<ol style="list-style-type: none">a. Anchor the ladder when it is used on a pitched roofb. Distribute weight on roofs where structural integrity is not certain4. Lengths vary from 12-24 feet	<p>What is the primary advantage of this ladder?</p> <p>What is the difference between a single ladder and a roof ladder?</p>



Fire Protection Training

Procedures Handbook 4300

TYPES OF FIRE SERVICE
GROUND LADDERS

PRESENTATION	APPLICATION
<p>C. Folding Ladder (Attic Ladder)</p> <ol style="list-style-type: none">1. Folding ladders are a special type of single ladder that have hinged rungs so that they can be folded into a compact assembly with one beam resting against the other<ol style="list-style-type: none">a. Used to gain access to interior attic openings, drop ceilings, and other overhead concealed spacesb. Also called an attic ladder2. Folding ladders are narrower than single ladders3. The lengths range from 8-16 feet <p>D. Extension Ladder</p> <ol style="list-style-type: none">1. The extension ladder has two or more sections2. Fly sections are manually raised and lowered by rope, or cable known as halyards3. Lengths range from 12-35 feet<ol style="list-style-type: none">a. Length designation refers to the fully extended length <p>E. Pole Ladder (Bangor Ladder)</p>	<p>What is another name for an attic ladder?</p> <p>What is the name of the ladder with two or more sections?</p> <p>What is the basic difference between an extension ladder and a pole ladder?</p>

4318.1

Page 3



Fire Protection Training

Procedures Handbook 4300

TYPES OF FIRE SERVICE
GROUND LADDERS

PRESENTATION	APPLICATION
<ol style="list-style-type: none">1. The pole ladders are extension ladders that have staypoles (tormentor poles) added for stability2. They are manufactured with two to four sections3. Lengths vary from 25-65 feet <p>F. Combination Ladders</p> <ol style="list-style-type: none">1. Combination ladders (A-frame ladders), are ladders that can be used as a:<ol style="list-style-type: none">a. Step ladderb. Single ladder orc. Extension ladder2. Lengths range from 8-14 feet	<p>Name the three types of ladders that a combination ladder can be used as</p>



Fire Protection Training

Procedures Handbook 4300

TYPES OF FIRE SERVICE
GROUND LADDERS

SUMMARY:

Ladders used in the fire service are the result of an evolutionary process. As the basic single ladder does not meet all fire department needs, it has been modified to adapt to different functions. The extension ladder, roof ladder, pole ladder, folding or attic ladder, and combination ladder are all results of this adaptive process.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).