



FIRE DEPARTMENT FIREFIGHTER I

Candidate:

LADDER EVALS 1	24' & 28' Ladder 1 Person Raise
5.3.6- Ground Ladders	

You are the #2 Firefighter on a Ladder Company that has arrived as the first due Ladder at a fire in a two and a half story house. Your officer tells you that Team A will search floor 2 and Team B will perform outside vent duties. You are tasked with laddering side Alpha with a 24' ladder to the window for Egress. You then notice fire in the eves and you ladder the roof with a 28' ladder to prepare for vertical ventilation. Your time starts when you touch the 24' ladder and stops after you throw the 28' Ladder for egress and you say "done". Do you have any questions?

STANDARD: NFPA 1001, 2013 Edition 5.3.6	TASK: Procure and deploy a 24' and 28' ground extension ladder.
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PERFORMANCE OUTCOME: The candidate shall be able to lift and carry a 24' ladder from a fixed distance and place the ladder for egress to the floor 3 window. The candidate shall then lift and carry a 28' ladder a fixed distance and place it to the roof for access.

CONDITIONS: Given PPE (radio, turnouts, SCBA, battle lantern, service ax) and standing next to a 24' ladder in the ladder rack, the candidate will:

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1	Remove and carry the 24' ladder using the high shoulder technique. a) State: "Ladder coming through."				
2	Raise the ladder to vertical. a) State: "Overhead clear." b) Foot ladder c) Wrap right toe/foot around the right beam when the ladder is vertical.				
3	Extend the fly. a) Extend the fly to the desired height. b) Lock dogs and state: "2 dogs locked." c) Does NOT touch rungs with hands before stating: "2 dogs locked." d) Maintains control of the ladder throughout.				
4	Places ladder into the building. a) Places left foot on bottom rung. (remains until halyard is secured) b) Grasps both beams. c) Pushes the tip into the building d) Secures halyard with round turn and 2 half-hitches				
5	Adjusts ladder. a) Ladder is placed to the sill of floor 3. b) Ladder butt and tip are square. c) Climbing angle is about 70 degrees. d) Ladder is in the "fly in" configuration				
6	Remove and carry 28' ladder to the parapet wall using the low shoulder technique. a) State: "Ladder coming through."				
7	Raise the ladder to vertical. a) State: "Overhead clear." b) Raise ladder				
8	Adjust the butt away from the building. a) Place left foot on bottom rung when bringing the tip out from the building. b) Grasp both beams when bringing the tip out from the building. c) Foot the ladder d) Wrap right toe/foot around the right beam when the ladder is vertical.				
9	Extend the fly. a) Extend the fly to so there are 5 rungs above the roof line when finished. b) Locks dogs and states: "2 dogs locked."				



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	<ul style="list-style-type: none"> c) Does NOT touch rungs with hands before stating: "2 dogs locked." d) Maintains control of the ladder throughout. 				
10	Place ladder into the building. <ul style="list-style-type: none"> a) Place left foot on bottom rung. (remains until halyard is secured) b) Grasps both beams. c) Pushes the tip into the building d) Secures halyard with round turn and 2 half-hitches. 				
11	Adjusts climbing angle to 70 degrees <ul style="list-style-type: none"> a) Ladder butt and tip are square. b) Ladder climbing angle is no more than 70 degrees. c) Time stops when ladder is positioned correctly and both hands are on a rung demonstrating the correct climbing angle and the recruit states "Done" 				
	WITHIN SFD TIME STANDARD: 1:45				

Evaluator/Candidate Comments:

Evaluator (Print & Sign)	Date	Candidate	Date
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Re-Test Evaluator	Date	Re-Test Candidate	Date
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24' Ladder Intro- PRE-BASIC SKILLS WEEK

Evaluation Sheet:

[Lead Truck Instructor Stuff\Truck Eval & Skill Sheets\Truck Week 1\Ladder Evals\24' ladder VALID.doc](#)

24' Ladder Intro Wednesday DAY 2

Footing Ladder and Ladder Control while vertical

- Once they get ladder vertical have them foot it.
- Hold hands on beams
- Step up with LEFT foot on bottom rung
- Slide right foot down right beam to spur
- Wrap right foot around spur
- Left foot back in athletic position
- Arms out relatively straight at shoulder height
- Ladder is controlled with shin and halyard. The ladder should not come close to their body or lean over their head.
- Get 24' vertical, control with foot & knee
- Wrap toe around right spur
- Control halyard - let ladder go in & out
- Ladder commands
- High shoulder carry
- Find balance point

Tying off halyard on 2 section ladder

- Halyard comes over top so it's right in front of you.
- Left foot in MIDDLE of bottom rung. This keeps ladder from getting knocked off balance if they pull hard on the halyard while taking up slack.
- Push through between 3 & 4 (you're high fiving yourself because you threw the ladder by yourself)
- Round turn.
- Figure 4. Backhand the loose halyard with back of left hand. This keeps tension.
- Half hitches.
- Why do we secure halyard?
 - What is a victim going to do?
 - They're going to grab the fly & unlock the dogs.

Intro to pivoting so we can beam lower.

- "On the left beam pivot out"
- "out" is always defined by the bed side



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- Have each person practice this individually with direct supervision before letting the group do it.
- Then have them each practice 5 times

Ladder Positioning:

Positioning for EGRESS:

- Any ladder thrown to a Window should be thrown for egress. We don't want anything blocking a FF ability to get out of a window or get a victim onto a ladder.
- Position tip just below sill. Better to go 4 inches low than 1 inch high.
- 60 degree angle is the goal. Measure this by placing shins on rungs & hands on rung at chest height.
- **A good guide is the butt should be located out from the contact point 1/3 of the height of the contact point.**

Positioning for ACCESS:

- Balcony: throw it to side & throw it 3 rungs above.
- Roof: 5 rungs above
- 70 degree angle: toes on spurs & hands on rungs. This makes climbing much easier. And gives us something to hold onto when we step on/off the roof. Also gives us a visual on a smoky roof indicating our egress point.

24' Ladder Intro Thursday DAY 3

- Review previous day
- Get ladder vertical
- Extend fly all the way
- Control ladder in/out 3 times each.
- Rotate around
- Then practice "2 dogs locked, into the building" several times
- Talk about where to ground butt based on your intended purpose with ladder.
- Talk about using ladder commands - if you're going to use them, use them all, not just some of them

Go over ladder checklist for properly thrown ladder (6 items):

- Purpose/tip position
- Tip square
- Dogs locked
- Halyard secure
- Butt is square
- Climbing angle



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24' Ladder Intro Friday DAY 4

- Practice Drill
- Key in on ladder placement and Ladder tip placement. Don't break windows!!!
- Commands
- Halyard
- Raising to correct rung
- Teach them to find the balance point
- Lower hand on bottom beam, off hand on upper beam or bed section rung (depending on arm length)
- Have ladder butt pointing slightly down as you move so you can see ground
- Single person ladder is the only one where you wrap toe around spur (leading cause of loss of ladder control)



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