



Rogers Fire Department Minimum Company Standards SOP 142, FORM 90

CONSTRUCT AN A-FRAME

Reference: CMC Rope Rescue Manual 3rd Edition

JPR Identification:

Purpose: The purpose of this drill is to increase the firefighter's ability to remove victims in certain rescue situations. Firefighters will be required to work together as a team. Firefighters are not expected to be high angle experts, however they are expected to finish this task. This task is designed to raise firefighter's awareness of possibilities in rescue scenarios. All members of the crew should be proficient in their responsibilities as well as understand the duties of the other crew members. This awareness will allow them to function better as a team and enable members to function in different capacities within the crew.

Performance Outcome: The fire company will be able to construct an A-Frame for use with a vertical mechanical advantage system. There are no established timeframes for this evolution. *Note: this evolution may be adjusted by the company officer to fit the need of his / her specific crew members.*

Materials Required: Personal Protective Equipment
2 Roof Ladders
Webbing
RPM Pack
2 Rope bags
2 stakes (optional)
Sledge Hammer (optional)
Note: It is the discretion of the company officer what props and configuration are utilized for this company skill.

Critical Teaching Points:

1. The company officer should reinforce the techniques utilized by Rogers Fire Department
2. There should be a progression of skills for all personnel that begins with necessary knots and moves on to necessary anchors etc.
3. As with most rescue situations, there are several ways to construct an A-Frame. If crew members are aware of other techniques, they should be discussed and possibly used.

Construct an A-Frame

1. Place two roof ladders parallel to each other on the ground and in line with the guy line.
2. Locate and set anchors for guy lines.
3. Use webbing to bind the two ladders together.
4. Pull the base ends apart a distance about $\frac{1}{3}$ the height of the ladders measured from the webbing to the base. At the base of the poles, tie a piece of rope or webbing between them so that they cannot spread further apart.
5. Loop a double sling over the top of the A-Frame. (Unless a loop was constructed in the webbing when ladders were lashed together.)
6. Rig the Main Line through its pulley and connect the pulley to the sling. On a tall A-Frame, rig the Main Line and connect the pulley before raising the A-Frame, or the sling may be too high to reach.
7. Attach the guy line to the top of the A-Frame. Tie the center of the guy line onto the legs with Clove Hitches directly above the lashing.
8. Lift the top of the A-Frame and “walk” it up by hand until the tensioning guy line can be used to lift the top into place. Be sure to foot the base of each leg so they do not slip.
9. Position the A-Frame so that it is above the hole to be entered.
10. Tension and secure both guy lines to separate anchors using a simple 2:1 mechanical advantage.