



WEST VALLEY REGIONAL FIRE TRAINING



TRAINING PLAN

Subject		
Special Ops. – Aerial Ladder Rigging & Hoist		
Instructors		
<u>A</u>	<u>B</u>	<u>C</u>
Logistics		
<u>Time Required</u> 2 hrs.	<u>Equipment Needed</u> Rope Rescue Cache Stokes Litter Aerial Ladder 5 gallon Bucket	

DESCRIPTION

Objectives:

1. Review & Discuss Basic/Alternate Methods To Perform A Vertical Hoist.
2. Demonstrate The Procedure For Rigging The Stokes Litter For Hoist.
3. Demonstrate the Aerial Ladder as a Fixed (Stationary) High “Pick-Point” or Change Of Direction.
4. Discuss & Demonstrate Use of the Aerial as a Crane-Type Hoist Operation.
5. Preliminary Discussion & Review of DFD Incident 02/21/2016 # 0000694 (EB I80 At The Causeway)
 - **Post Incident Analysis (PIA) Results To Be Released When Complete.**

Description / Outline:

1. ALTERNATIVES TO PERFORMING VERTICAL HOIST OPERATION:

- The situation, site access, patient status, and resource availability may affect the method selected to perform the rescue.
- Vertical Hoist operations are, often, equipment and manpower intensive.
- Basic or alternate rigging solutions should be considered, when appropriate:
 - Tended Litter “Walkout” or “Caterpillar” Method
 - Moving Ladder Slide
 - Stationary Ladder Slide

Reference: LARRO Manual Chapters 14 & 15

2. STOKES LITTER RIGGING:

Reference: RS1 Student Manual Topic 2-4: pages 95 – 99 (attached)

3. AERIAL AS A HIGH “PICK-POINT” OR CHANGE OF DIRECTION:

- Dual Line System (Haul Line & Safety/Belay Line)
- Familiar Rigging Operation:

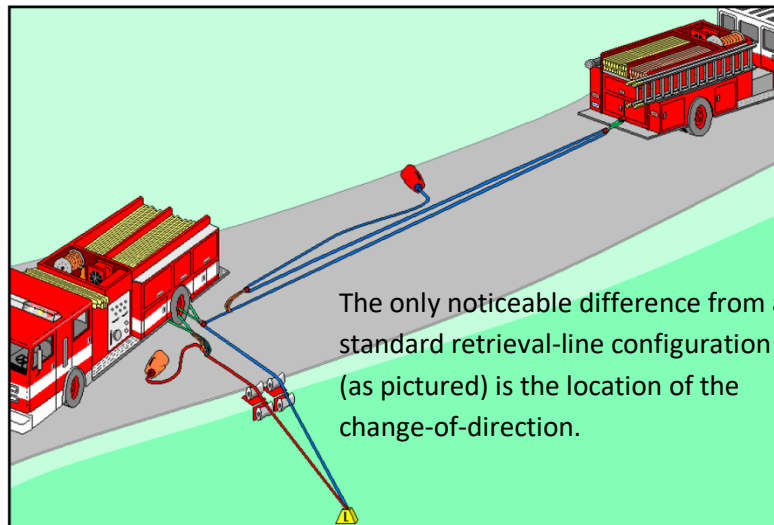


Figure 11-12: 3:1 Mechanical Advantage Directional Change System Layout

4. USING THE AERIAL FOR A CRANE-TYPE HOIST OPERATION:

- SAFETY CONSIDERATIONS / RISK ASSESSMENT
 - Have alternative methods been considered inappropriate or non-feasible
 - Rating of the Aerial Device & Dynamic Load Considerations
 - “2-Blocking”: Condition under which the block or load suspended from the hook becomes jammed against the crane structure.



- DEMONSTRATE THE CONTROL / COORDINATION REQUIRED
 - Utilizing the 5 gallon bucket, suspended from a simple rope and pulley system
 - Raise/Lower, Rotate, & Extend/Retract the Aerial Device to demonstrate effects

5. PRELIMINARY DISCUSSION & INCIDENT SUMMARY OF DFD INCIDENT # 16-0000694

- Discuss the challenges and success of the operations
- Discuss the “Lessons Learned”
- **Formal PIA Results to be released in the future.**
 - Please forward any additional observations or recommendations to the Battalion Chief.

