



Combined Agency Response Team
2012 Minimum Mandatory Training Standards

MECHANICAL ADVANTAGE SYSTEMS

Objective: Demonstrate the use of a mechanical advantage hauling system, in a horizontal position, re-setting the system three (3) times.

Condition: Given rope and necessary ancillary equipment.

Behavior: Construct the following haul systems, using each of the approved load release hitches and change the system to a lowering system.

Standard: With 100% Accuracy.

Skill	Time	1st Attempt		2nd Attempt	
		Pass	Fail	Pass	Fail
3:1 (Z-rig) Using a 3 point self-equalizing anchor Anchor 1 use a tensionless Anchor 2 use a basket wrap Anchor 3 use a loop wrap Belay of choice Change to a lowering system	15 min				
3:1 Piggyback Using a 2 point self equalizing anchor Anchor 1 use a loop Anchor 2 use a basket Munter hitch as a belay Change to a lowering system	12 min				
4:1 (Double J) Piggyback Using a basket wrap anchor Tandem prussik as a belay Change to a lowering system	10 min				
Haul system attached to a tripod	10 min				