
Technical Operations - Rope Rescue



Company Training

Operations Level – Main Line Skills Sheet

Shift _____ Circle Companies E45 E46 E47 B45 A45 A46 Date _____

Review terminology, equipment and knots used for Main Lines.

Review Roles/Responsibilities of IMS Positions.

Set up and demonstrate operation of a Main Line with a Belay Line. Lowering/Raising

Terminology

Ready
Raise
Lower
Stop
Stop Set
Reset
Slow
Up
Down
On Belay – Belay On
Climbing
On Rappel – Rappel Away

Equipment

Anchor Equipment
Anchor Plate
Belay Line Bag
Radium Load Release Hitch
Prusik Minding Pulley
Prusik
Padding
Main Line Bag
Brake Bar Rack

Knots

Water Knot
Wrap 3, Pull 2
3 Bight
Figure 8 Follow Thru
Figure 8 on a Bight
Double Loop Fig 8 on a Bight
Triple Wrap Prusik

IMS Position Roles/Responsibilities

Rescue Group Supervisor (RGS)
Technical Safety Officer (TSO)
Entry Team Leader (ETL)
Rigging Team Leader (Rigger)

Set up Main Line and Belay Line

Designate a Rescue Group Supervisor, Entry Team Leader, Technical Safety Officer and Rigging Team Leader (The RGS may retain the duties of the ETL for simple operations.)

Under the direction of the Rigger, set up a Main Line and a Belay Line.

Perform system safety check of the Belay Line by both Rigger and TSO. (Redundant)

Perform system safety check of the Main Line by the ETL or RGS and the TSO. (Redundant)

On direction from a person acting as the RGS or ETL, operate the Main Line and Belay Line.

During operations perform the following:

Lower	Solve a Belay Lock off
Raise	Passing a knot
Stop	Add a 2:1 to the 3:1 raising system
Stop-Set/Reset	

General Information

- A Main Line is part of a two-rope system that provides the safest means for rescuers to access a patient during a rope rescue.
- Successful operation of a two-rope system is dependent upon the coordination of personnel and equipment under the direction of the Rescue Group Supervisor or Entry Team Leader with clear, focused communications.
- The Main Line provides access to a patient, fall protection to rescuers and patient and assistance in regaining the top in an angled or vertical environment.
- The Main Line bears all the weight of rescuers, patient and equipment during operations.
- Redundant System Safety check must be done prior to application of the intended load. This is accomplished by multiple people and includes the Critical Point Test, Whistle Test and a Touch Test.

Resources

Zone 3 Rope Manual

Evaluator Print: _____

Evaluator Signature: _____ **Date:** _____