



CANADA TRAINING & EDUCATION LTD

SRT Aerial Rescue

Stationary Rope Technique

Presented by :

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Categories of Fall Protection

Fall Protection Information Chart

Fall Arrest (Dorsal)		Fall Arrest (Sternal)	
R	A device specifically designed to arrest a user's fall from an elevated position. Fall arrest devices are designed to minimize the impact forces during a fall.	A a e F tu d	A device specifically designed to prrest a user's fall from an elevated position. Fall arrest devices are designed o minimize the impact forces luring a fall.
Fall Restrict		Fall Restrict (Ladder)	
	Equipment designed to prevent the worker from entering an area where a free could occur.		Equipment designed to prevent the worker from entering an area where a free could occur while slimbing a ladder or ladder system. Typically consists of a rope or table grab device as well a short ether for that device.
Suspension		Rope Access	
	Equipment designed to suspend or lower a person to a work site. Not intended to arrest a fall unless also equipped for fall arrest.	A - - e - uy w - rc ad	A Rope Access system consists of 2 separate anchor systems Positioning and progression quipment Rope clamps, descenders, etc. that allow pwards and downwards movement, as vell as positioning at the work area. A fall arrest system made up of a safety ope and a mobile fall arrest device that ccompanies the worker as they move bout.
Work Positioning			
	Equipment designed to position the user at an elevated work site in order that he may have free use of both hands. Not intended to arrest a fall unless also equipped for fall arrest.		ATH AMERICAN

Arborists Fall Under the Category of :

Work Positioning and

Suspension While Climbing

Fall Arrest (Dorsal) While working in an Aerial Lift / Man Lift

Monday, August 10, 15



Doubled Rope (DdRT) Arborist Climbing System Forces

Arborist Doubled Rope Climbing System Provides a 2:1 mechanical advantage while ascending and descending



200 lbs

Arborist DdRT Climbing System

200 lbs



Monday, August 10, 15



Arborist Stationary Rope Technique (SRT)

Basal Anchor's



Stationary Rope Technique (SRT) Arborist Climbing System Forces

200 lbs

400 lbs

Arborist SRT Climbing System Provides a 1:1 ratio while ascending descending and performing work position / access

Basal Anchor

200 lbs



Canopy Anchor's



Stationary Rope Technique (SRT) Arborist Climbing System Forces

200 lbs

Arborist SRT Climbing System Provides a 1:1 ratio while ascending descending and performing work position / access

Canopy Anchor

200 lbs





1.41 kN

Effect of Rope angle on anchor point.

Bending Moment



Tree Limb Bending Moment

Force x Distance = Torque

200lb x 6 ft of limb length

1200lbs of force!!!!