



ROPE ACCESS TECHNICIAN LEVEL II

- ALL INDUSTRIES-

2010

*"IT'S NOT WHAT YOU KNOW THAT PROTECTS YOU...
IT'S HOW THE INFORMATION IS EFFECTIVELY APPLIED"*

COURSE DURATION:	4 Days (40 Hours)
CLASS SIZE:	Open Enroll Format Criterion-Student/Instructor Ratio Determined By Class Size
REFERENCE MATERIALS:	Materials Addendum Provided Upon Request
DOCUMENTATION:	Graduation Certificate, Wallet-Sized Certificate with Picture

All courses are intended to be used as a continuing education opportunity, please refer to ANSI490.1 2009 Criteria for Accepted Practices in Safety, Health, and Environmental Training. Although SYNTECH courses are comprehensive in content, there's only minimum time available to pass on over 120 years of knowledge from the SYNTECH Team. We do not endorse a single course completion to achieve total subject matter competency; it's only with continuing education can competency be maintained and move a safety culture forward.

COURSE DESCRIPTION

This course is intended to *prepare* candidates for the SPRAT or IRATA Level II Technician certification. Level II focuses on more advanced rigging required of the Technician working in a wide variety of environments. Self and team rescue, including hauling and lowering skills, will be emphasized. Unlike traditional rescue courses, the course focuses on building efficient rescue skills within a small team.

Significant emphasis is placed on developing rope access level II skill sets in student performance using practical management of hands-on training evolutions. Participants will also receive instruction on the required documentations of equipment, ropes and audits for rope access.

Prerequisites

Candidates seeking certification to SPRAT or IRATA Level II Technician must have appropriate previous industrial rope access experience (current SPRAT requirements are 500 hours) before challenging the SPRAT skills test. The minimum age requirement is 18 years. Participants will be asked to perform moderate to strenuous activities. A physical examination by a doctor is strongly recommended. Candidates will be required to sign a *Liability Release Form* and a *Statement of Medical Affidavit* confirming the absence of known medical conditions that might preclude their ability to safely work at height.

COURSE OBJECTIVES

Upon completion of the course, students will have a comprehensive understanding of the following areas in fall protection and rescue instruction:

- ◆ Regulatory Standards & Guidelines
- ◆ Fall Protection & Rescue Theory
- ◆ Range/Application of Systems & Equipment
- ◆ Anchorages and Anchorage Selection
- ◆ Clearance Requirements
- ◆ Full Body Harnesses
- ◆ Connectors
- ◆ Energy Absorbing Lanyards
- ◆ Work Positioning Systems
- ◆ Ladder Climbing Devices
- ◆ Job Hazard Analysis
- ◆ Fall Restraint Systems
- ◆ Equipment Inspection
- ◆ Vertical Lifelines & Rope Grabs
- ◆ Secondary Protection Requirements
- ◆ evaluate the safety of rope access equipment and systems
- ◆ perform basic and advanced access techniques

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- ◆ understand fundamental system analysis
- ◆ establish anchor systems
- ◆ efficiently perform standard rescue procedures using mechanical advantage and lowering systems
- ◆ Qualifications and responsibilities required of each level of Rope Access Technician
- ◆ Review of various methods of access and hierarchy of risk
- ◆ Documentation including experience logbooks, equipment logs, and job hazard analysis (rope access permit)
- ◆ Consistent safety checks
- ◆ Insuring proper and effective communication between team members
- ◆ Establishing Access, Hazard, and Safe Zones
- ◆ Care, Inspection, Use, and Limitations of Equipment
- ◆ Knots: Figure 8 and 9, Double-figure eight, Butterfly, Prusik, Barrel Knot, Double Fisherman's, and Clove Hitch
- ◆ Practice advanced rigging skills (structural and load sharing/distributing multi-point anchoring) taking into account fall line, rigging angles, area of work, and terrain
- ◆ Application of redirect and re-belay anchors
- ◆ Pre-rigging anchors for lowering or pull-through
- ◆ Discussion of anchor installation and testing
- ◆ Analysis of rope access systems, including fall factors, impact forces, and resultant forces
- ◆ Ascent/Descent and rope transfer
- ◆ Passing knots, deviations, and intermediate anchors (re-belay)
- ◆ Rope to rope transfer
- ◆ Horizontal aid climbing: point to point and shuffling
- ◆ Structure climbing: Overview of horizontal/vertical lifelines, shock absorbing Y-lanyards, and other standard fall protection systems
- ◆ Risk management, rescue protocol, and casualty management
- ◆ Extensive practice with mechanical advantage systems utilizing standard equipment and pulley systems
- ◆ Breaking into tensioned fixed ropes with haul systems
- ◆ Pitch head hauling
- ◆ Converting between lowering and hauling
- ◆ Single person rescue pick-off of a descending and ascending casualty
- ◆ Site Safety Evaluation
- ◆ Procedures for Maintaining Student Safety
- ◆ Procedures & Planning for Rescue Practical
- ◆ Predetermined Rescue Plans for Skills Practical
- ◆ Site-Specific Practical Skills Development
- ◆ Teaching/Presentation Workshop
- ◆ Program Administration & Documentation

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