

ALABAMA FIRE COLLEGE

AND PERSONNEL STANDARDS & EDUCATION COMMISSION



COURSE SYLLABUS

Rescue Technician: Rope Level I

FSC 221

40 clock hours

PREREQUISITES

- Certified Volunteer Fire Fighter **OR** Certified Fire Fighter I **OR** documented proof of Hazardous Materials First Responder training at the Awareness and Operations levels
- Proof of course of instruction equivalent to or exceeding the DOT Medical First Responder

REQUIRED COURSE MATERIALS

- ***Alabama Fire College High-Angle Rope Rescue Techniques Levels I & II***

Other materials:

- Coveralls
- Helmet (climbing helmet)
- Boots (hiking or work boots)
- Work gloves (climbing or leather work gloves)
- Knee and Elbow pads (optional)

DESCRIPTION

This course is based on NFPA 1006: *Standard for Technical Rescue Personnel Professional Qualifications*. This course begins with an Introduction to Technical Rescue and goes into rope rescue techniques. The classroom portion includes a review of equipment, knots, and rope safety. Instruction events include: establishing need for rope rescue, uses and limitations of equipment, know craft, safety aspects, anchoring systems, rescue rappelling, third man rescue, lowering systems, and other aspects of rope rescue.

*This is a physically demanding course which requires students to be in good physical condition.

STUDENT LEARNING OBJECTIVES

- Construct a multi-point anchor system.
- Determine incident needs as related to choosing anchor systems, effective knots, and expected loads.
- Construct a compound rope mechanical advantage system.
- Perform a system safety check and evaluate system components for compromised integrity.
- Construct a fixed rope system.
- Direct the operation of a compound rope mechanical advantage system in a high-angle environment.
- Analyze the efficiency of a rope system and manage the movement of a load.
- Ascend a fixed rope in a high-angle environment.
- Descend a fixed rope in a high-angle environment.

CERTIFICATION REQUIREMENTS

To be issued certification, the candidate will: provide documentation of prerequisites, complete required training hours including skills training, successfully complete the cognitive written exam, and successfully complete the practical exam.

ACCREDITATION

Alabama Fire College and Personnel Standards Commission maintains accreditation with Pro Board and IFSAC. Each student will automatically receive national registration and certification upon successful completion of all requirements for certification.

COURSE SCHEDULE (SUBJECT TO CHANGE)

Day One:	(Class) High Angle Environment, Rescue Organization, Personal Equipment and Protection, Rope & Related Equipment, Care and Use of Rope Related Equipment, Basic High Angle Equipment, Knots. (Drill Field) Knot Tying.
Day Two:	(Class) Anchoring, Belaying One Person Loads, Rescue Belaying: On Rappel, Lowering Systems. (Drill Field) Belay a Falling Load. Rappels.
Day Three:	(Class) Basic Ascending Techniques, Pickoff Rescue Techniques, Use of Litters in High Angle Rescue, Low Angle Evacuation, High Angle Lowering, Hauling System (Drill Field) Ascend 20 ft. Fixed Rope. Simple and Compound Mechanical Advantage Systems. Rope Rescue team Operations utilized. Passing Knots Through Systems.
Day Four:	(Drill Field) Rescue-Based Scenarios
Day Five:	(Drill Field) Scenario-Based JPR Skills Testing, Equipment returned to trailer. (Class) Review, Paperwork, Survey, Certification Examination.

GRADE ASSESSMENT

WRITTEN EXAMINATION

Perform to a minimum 70% competency on the examination,
(One retest is allowed after 30 days but within one year of course end date.)

PRACTICAL EXAMINATION

Successfully complete a skills/project evaluation to a minimum of 70% competency and successful completion of all critical points. Evaluators will test at least 25% of the skills for each. Skill sheets to be tested will be randomly selected by AFC Certification Unit for the practical examination. (One retest is allowed after 30 days but within one year of course end date.)