

ALABAMA FIRE COLLEGE

AND PERSONNEL STANDARDS & EDUCATION COMMISSION



COURSE SYLLABUS

Rescue Technician: Structural Collapse I/II

FSC 233

80 clock hours

PREREQUISITES

- (Pro Board or IFSAC) Certified Rescue Technician: Rope I

REQUIRED COURSE MATERIALS

- National Urban Search and Rescue Response System Student Manual
- **Structural Collapse: Technician Course Student manual & Field (FEMA)**
- Operations Guide: Urban Search & Rescue Structures Specialist Student Manual
- **Other materials:**
 - Field Operations Guide: Urban Search and Rescue Structures Specialist
 - Hardhat with chin strap
 - Steel-toed shoes
 - Leather work gloves
 - Clothing suitable for outside activities (long-sleeved shirt and pants; coveralls)
 - Rain gear (coat and trousers)
 - Knee pads
 - Foam ear plugs
 - OSHA approved safety glasses

DESCRIPTION

This course is based on NFPA 1006: *Standard for Technical Rescue Personnel Professional Qualifications*. This program is designed for those persons who respond to incidents involving the application of special knowledge, skills, and equipment to safely resolve unique or complex rescue situations. This program is an intense course which addresses light frame construction collapse and emphasizes the following discipline areas: breaching and breaking, lifting and moving, shoring, and cutting and burning.

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

STUDENT LEARNING OBJECTIVES

- Conduct a size-up of a collapsed structure.
- Determine potential victim locations.
- Develop a collapse rescue incident action plan.
- Implement a collapse rescue incident action plan.
- Search a heavy construction-type collapsed structure.
- Stabilize a collapsed light-frame structure as a member of a team.
- Stabilize a collapsed heavy construction-type structure as a member of a team.
- Implement collapse support operations at a rescue incident.
- Release a victim from entrapment by components of a collapsed structure.
- Remove a victim from a collapse incident.
- Lift a heavy load as a team member.
- Move a heavy load as a team member.
- Breach structural components.
- Cut through structural steel.
- Construct cribbing systems.

- Coordinate the use of heavy equipment.

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:	<ul style="list-style-type: none"> • Introductions and Administrative issues • Safety • Structural engineering systems • Tool lab rotations <ol style="list-style-type: none"> a. Torches b. Gasoline power tools c. Hydraulics and electrical
Day Two and Three:	<p>Practical station rotations: Shoring, Breaking, Breaching and Burning, Lifting and Moving</p> <p>Division 1: Squads 1, 2, and 3 – Shoring</p> <p>Division 2: Squads 4, 5, and 6 – Breaching, Breaking and Burning</p> <p>Division 3: Squads 7, 8, and 9 – Lifting and Moving</p>
Day Four and Five:	<p>Practical station rotations: Shoring, Breaking, Breaching and Burning, Lifting and Moving</p> <p>Division 1: Squads 1, 2, and 3 – Lifting and Moving</p> <p>Division 2: Squads 4, 5, and 6 – Shoring</p> <p>Division 3: Squads 7, 8, and 9 – Breaching, Breaking and Burning</p>
Day Six and Seven:	<p>Practical station rotations: Shoring, Breaking, Breaching and Burning, Lifting and Moving</p> <p>Division 1: Squads 1, 2, and 3 – Breaching, Breaking and Burning</p> <p>Division 2: Squads 4, 5, and 6 – Lifting and Moving</p> <p>Division 3: Squads 7, 8, and 9 - Shoring</p>
Day Eight:	<p>Field exercise (JPR Skills Testing)</p> <p>Clean up</p> <p>Final admin work</p> <p>Survey</p> <p>Certification Examination</p>

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.)