



ALABAMA FIRE COLLEGE

RESCUE TECHNICIAN: STRUCTURAL COLLAPSE I/II

SYLLABUS

FSC 233

80 CLOCK HOURS

Prerequisite(s)	<ul style="list-style-type: none"> (Pro Board or IFSAC) Certified Rescue Technician: Rope I
Course Description	<p>This course is based on NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications, and may lead to Pro Board and IFSAC certifications. 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.</p>
Student Learning Objectives	<ul style="list-style-type: none"> 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.
Required Textbook and Course Materials	<p><u>Alabama Fire College Bookstore</u></p> <ul style="list-style-type: none"> <i>National Urban Search and Rescue Response System Student Manual</i> <u>Structural Collapse: Technician Course Student Manual & Field (FEMA)</u> <i>Operations Guide: Urban Search & Rescue Structures Specialist Student Manual</i> <p>Other materials:</p> <ul style="list-style-type: none"> 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
Reading Prior to Arrival	<ul style="list-style-type: none"> Textbook material suggested
Daily Activities and Class Participation	<p>This course will involve discussion, questions and answers on the materials, and case studies. Class participation is expected from all students.</p>
Basis	<p>Alabama Fire College and Personnel Standards Commission, Administrative Code, Chapter 360-X-19-.04: Requirements for Certified Rescue Technician: Structural Collapse Rescue</p>
Certification Requirements	<p>To be issued certification, the candidate will:</p> <ul style="list-style-type: none"> provide documentation of prerequisites. complete required training hours including skills training.

	<ul style="list-style-type: none"> • successfully complete written exam. • successfully complete practical exam.
Grade Assessment	<ul style="list-style-type: none"> • Written Examination: Perform to a minimum 70% competency on the examination, calculated at 50% of the final score for the course. (One retest is allowed after 30 days but within one year of course end date.) • Practical Examination (if applicable): 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 level of skill sheets. Skill sheets will be randomly selected by AFC Certification Unit for this practical examination. The Practical Examination Portion is calculated at 50% of the final score. (One retest is allowed after 30 days but within one year of course end date.) <p>Example: Written examination - 70/100 possible points 70 x 50% = 35 points awarded for written exam portion Practical/project - 40/100 possible points 40 x 50% = 20 points awarded for practical portion Total Points = 55 points (student awarded F, score not 70%>)</p>
Accreditation	Alabama Fire College and Personnel Standards Commission maintains accreditation with the Pro Board and IFSAC. Each student will automatically receive national registration and certification upon successful completion of all requirements for certification.
Contact Information	<p>Link: Alabama Fire College Website 1-800-241-2467 Link: Alabama Fire College Bookstore Website 1-866-984-3545</p>
Academic Misconduct	Academic misconduct or dishonesty, such as cheating and plagiarism, is not permitted in class. Suspected cases of academic misconduct will be reported to the Executive Director. Conduct detrimental to the fire service, on or off campus, will not be tolerated. AFC will investigate any complaints. If a complaint is valid, the student will be dismissed and his/her agency will be notified.
Attendance Policy	<p>Attendance will be recorded at every class or lab meeting at the beginning of class and after long breaks for required hours. For a week-long certification course, students are required to attend all sessions to obtain certification. For VA students, it is especially important because they will receive benefits only for those days in attendance.</p> <p>Special Policy: Fire Fighter I/II: Students are expected to attend all classes. Failure to appear in class for a scheduled activity will be considered an absence unless prior permission is received from the instructor. For any absence to be excused and makeup work to be allowed, it must be accompanied by a written description of extenuating circumstances.</p> <p>No-Show: Students who have registered for a fee-waived or stipend course and fail to withdraw according to Alabama Fire College withdrawal policy will not be allowed to register for another fee-waived or stipend course for a period of one year.</p> <p>Department Delivery: To qualify to attend department delivery courses, students must be Alabama residents or a member of an Alabama fire department.</p>
Tardiness	Students must adhere to class schedules. Students are required to be punctual for all classes and class activities. Classes will begin promptly at the scheduled time unless specific instructions are given otherwise.
Safety	Safety of the students is a top priority for Alabama Fire College. Students must adhere to safety regulations while attending a class at the Fire College. Safety instructions are posted in every classroom, as well as escape routes and tornado actions.
Quality Enhancement Plan	An evaluation form will be provided for each student at the end of the course. Students may use this evaluation form as a means of communicating their opinion of the overall course, course content, instructor, and facilities.
Course Schedule	<p><i>Suggested course schedule</i> Day 1</p> <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

	<p>d. Pneumatic tools, nailer, and anchoring stations</p> <p>Day 2 and 3</p> <ul style="list-style-type: none"> • Practical station rotations: Shoring, Breaking, Breaching and Burning, Lifting and Moving <ul style="list-style-type: none"> Division 1: Squads 1, 2 and 3 – Shoring Division 2: Squads 4, 5 and 6 – Breaching, Breaking and Burning Division 3: Squads 7, 8 and 9 – Lifting and Moving <p>Day 4 and 5</p> <ul style="list-style-type: none"> • Practical station rotations: Shoring, Breaking, Breaching and Burning, Lifting and Moving <ul style="list-style-type: none"> Division 1: Squads 1, 2 and 3 – Lifting and Moving Division 2: Squads 4, 5 and 6 – Shoring Division 3: Squads 7, 8 and 9 – Breaching, Breaking and Burning <p>Day 6 and 7</p> <ul style="list-style-type: none"> • Practical station rotations: Shoring, Breaking, Breaching and Burning, Lifting and Moving <ul style="list-style-type: none"> Division 1: Squads 1, 2 and 3 – Breaching, Breaking and Burning Division 2: Squads 4, 5 and 6 – Lifting and Moving Division 3: Squads 7, 8 and 9 – Shoring <p>Day 8</p> <ul style="list-style-type: none"> • Field exercise (JPR Skills Testing) • Clean up • Final admin work • Survey • Certification Examination <p><i>The schedule is subject to change.</i></p>
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