

University of Illinois Fire Service Institute

Course Syllabus

Course Title: Responder Intervention Team Rescue Technician

Course Duration: 50 Hours

Program: Special Operations Training Program

Course Prerequisites: Basic Operations Firefighter Certification or Firefighter II Certification

Course Description: Formally RIT under Fire, this course provides firefighters with the necessary advanced skills to effectively operate as a member of a responder intervention team. Responder Intervention Team Rescue Technician combines classroom lecture, firefighter fatality case studies, drags and carries, breaching, heavy lifting with hydraulic and pneumatic tools, cutting utilizing a variety of torches, and hands-on scenario-based training involving a firefighter mayday. Skills are practiced and honed under live fire conditions that will challenge each student mentally and physically. This course goes beyond any traditional class by utilizing rescue tools and techniques in the fire suppression environment. This physically intense course meets and exceeds NFPA 1407, preparing the responder for our worst-case scenario.

Course Requirements:

Pre-Course Work – None
Course Work – None
Post-Course Work – None

Course Policies:

Attendance Policy: IFSI requires students to attend (100%) or make up all course content that leads to certification. Students are expected to attend on time and to remain in class for the duration of the course. Students **MUST COMPLETE** all portions of a certification course, both classroom and practical, to be eligible to receive their certification.

If a student misses any portion of class with an accumulated absence of 20% or less of scheduled class time, it will be the student's responsibility to arrange the make-up of the missed course content with the instructor(s) or program manager. The student must make up the specific course content that s/he missed, not just the hours. Make-ups are limited to 20% of scheduled class time. Make-ups must be documented on the class roster. If a student's absence is greater than 20% refer to "True Emergences" section of the IFSI Examination Policy.

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Safety Policy: Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

Academic Integrity Policy: IFSI has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

American Disabilities Act: As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations, they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs. If arrangements cannot be made at the class site, the student will test at an alternative time and place where the special accommodations can be made.

Evaluation Strategy: Simulated rescue evaluations involving various rescue problems are conducted throughout the course.

Course Content:

Module: 1

Title: Firefighter Fatality Statistics

Terminal Learning Objective:

At the conclusion of this module, the student will identify significant factors that contributed to the firefighter(s) death.

Module: 2

Title: Size Up

Terminal Learning Objective:

At the conclusion of this module, the student will explain the principles of size-up, and how it may affect firefighter safety.

Module: 3

Title: Initiating the MAYDAY

Terminal Learning Objective:

At the conclusion of this module, the student will describe a MAYDAY situation.

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Module: 4

Title: Disorientation

Terminal Learning Objective:

At the conclusion of this module, the student will identify ways to locate a lost firefighter who has become disoriented.

Module: 5

Title: SCBA

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate methods for mitigating an SCBA emergency.

Module: 6

Title: Entanglement

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate methods used for firefighter survival during entanglement.

Module: 7

Title: Entrapment

Terminal Learning Objective:

At the conclusion of this module, the student will describe methods used for firefighter survival during entrapment.

Module: 8

Title: RIT Strategies and Techniques

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate strategies and techniques used by a Responder Intervention Team.

Module: 9

Title: Search

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate the different types of searches.

Module: 10

Title: Firefighter Removal

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate the proper techniques for removing a firefighter.

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Module: 11

Title: Managing the MAYDAY

Terminal Learning Objective:

At the conclusion of this module, the student will be able to explain the proper procedures when a MAYDAY is called.

Module: 12

Title: RIT Support

Terminal Learning Objective:

At the conclusion of this module, the student will demonstrate the proper techniques to support a RIT operation.

Module: 13

Title: Firefighter Fatality Case Study

Terminal Learning Objective:

At the conclusion of this module, the student will identify significant factors that contributed to the firefighter(s) death.

Module: 14

Title: Final Scenario

Terminal Learning Objective:

At the conclusion of this module, the student will operate as a member of a RIT team assigned to various functions while operating at a multiple MAYDAY operation.

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Reference List:

Current and Past NIOSH Reports

Emergency Response to Terrorism Basic Concepts-Student Manual FEMA 2002

Firefighter Rescue and Survival, Kolomay & Hoff (2003)

National Fire Protection Association Standards 1001 *Standard for Fire Fighter Professional Qualifications* (2019)

National Fire Protection Association Standards 1404 *Standard for Fire Service Respiratory Protection Training* (2018)

National Fire Protection Association Standards 1407 *Standard for Fire Service Rapid Intervention Crews* (2020)

National Fire Protection Association Standards 1500 *Standard on Fire Department Occupational Safety and Health Program* (2021)

National Fire Protection Association Standards 1561 *Standard on Emergency Services Incident Management System* (2020)

National Fire Protection Association Standards 1981 *Standard on Open- Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services* (2019)

National Fire Protection Association Standards 1983 *Standard on Life Safety and Equipment for Emergency Services* (2017)

United States Army Corps of Engineers: *Urban Search and Rescue Structures Specialist Field Operations Guide*

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Course Schedule

<u>Event</u>	<u>Duration</u>
Module 1 - Firefighter Fatality Statistics	20 mins
Module 2 - Size up	1 hour
Module 3/4 – Initiating the MAYDAY & Disorientation	2 hours 25 mins
Drill 4.1 - Initiating a MAYDAY/Disorientation	
Module 5 – SCBA	2 hours 45 mins
Drill 5.1 - SCBA Emergencies	
Drill 5.2 - Buddy Breathing	
Drill 5.3 - SCBA Confidence Course	
Module 6 – Entanglement	30 mins
Module 7 – Entrapment	30 mins
Module 8 – RIT Strategies & Techniques	6 hours 45 mins
Drill 8.1 - Approach of the Down Firefighter and SCBA Removal	
Drill 8.2 - RIT Pack Familiarization	
Drill 8.3 – Breaching	
Drill 8.4 – Lifting and Stabilization	
Drill 8.5 – Forcible Entry	
Drill 8.6 – Metal Cutting	
Drill 8.7 – RIT Theories and Concepts	

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Module 9 – Search

2 hours 45 mins

Drill 9.1 – Rope Assisted Search Procedures

Drill 9.2 – Team Coordination Evolution

Drill 9.3 - Missing Firefighter

Module 10 – Firefighter Removal

22 hours 45 mins

Drill 10.1 – Drags and Carries (Firefighter **WITH** SCBA removal via ground ladder)

Drill 10.2 - Drags and Carries (Firefighter **WITHOUT** SCBA removal via ground ladder)

Drill 10.3 – Drags and Carries (One and Two Firefighter Drags)

Drill 10.4 – Drags and Carries (Removal via Stairs)

Drill 10.5 – Drags and Carries under live fire conditions (Firefighter removal ascending stairs)

Drill 10.6 - Drags and Carries under live fire conditions (Firefighter removal descending via ground ladder)

Drill 10.7 - Drags and Carries under live fire conditions (Firefighter descending interior stairs)

Drill 10.8 - Drags and Carries under live fire conditions (Firefighter removal descending aerial ladder)

Drill 10.9 – Firefighter Removal Utilizing Rope

Drill 10.10 – Firefighter Removal via Wood Wall Breach

Drill 10.11 – Firefighter Removal from an Attic Space under Live Fire Conditions

Drill 10.12 – Firefighter Entrapment Due to Roof Collapse

Drill 10.13 – Basement Evolution with Entrapment

Drill 10.14 - Firefighter Removal from Residential Structure due to Pancake Collapse

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Drill 10.15 – Ground Ladder Entry/Exit for Firefighter Removal

Drill 10.16 – Metal Entrapment

Drill 10.17 – Firefighter Removal with Masonry Wall Breach

Drill 10.18 – Firefighter Removal While Locating an Alternate Exit

Drill 10.19 – Concrete Beam Collapse with Entrapment

Drill 10.20 – Roof Operations with Firefighter Removal via Rope

Drill 10.21 – Coordinated Operations for Effective Firefighter Removal

Module 11 – Managing the MAYDAY 1 hour 30 mins

Module 12 – RIT Support 1 hour 45 mins

Drill 12.1 – Engine Company Responsibilities while Supporting RIT Operations

Module 13 – Firefighter Fatality Case Study 1 hour

Module 14 – Final Scenario 6 hours