

University of Illinois Fire Service Institute

Course Syllabus

Course Title: First-In Company Operations for Technical Rescue

Course Duration: 4 hours

Program: Special Operations Training Program

Course Prerequisites: None

Course Description: The scope of this 4-hour course is to begin to prepare local responders to operate as a local member of a regional team within the National Incident Management System at an event requiring local and/or statewide response that has resulted in the need for a technical rescue. This course is for the basic first-in company. It will provide first responders with the information needed to identify the rescue situation, its specific hazards, and the initial company operations that can be performed. Subject areas include: standards, structural collapse rescue, rope rescue, elevator rescue, confined space rescue, machinery rescue, water and ice rescue, trench and excavation rescue.

Course Requirements:

Pre-Course Work – None

Course Work – Attend and participate in all lectures and practical.

Post-Course Work – None

Course Policies:

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.

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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.

Course Content:

Module: 1

Title: Standards

Terminal Learning Objective:

At the conclusion of this module, the student will summarize the general requirements necessary to mitigate a technical rescue incident.

Module: 2

Title: Rope and Tower Rescue

Terminal Learning Objective:

At the conclusion of this module, the student will be given a scenario, and will summarize all FICO tasks to be accomplished at a rope rescue incident.

Module: 3

Title: Confined Space

Terminal Learning Objective:

At the conclusion of this module, the student will be given a scenario, and will summarize all FICO tasks to be accomplished at a confined space incident.

Module: 4

Title: Trench and Excavations

Terminal Learning Objective:

At the conclusion of this module, the student will be given a scenario, and will summarize all FICO tasks to be accomplished at a trench or excavation incident.

Module: 5

Title: Structural Collapse

Terminal Learning Objective:

At the conclusion of this module, the student will be given a scenario, and will summarize all FICO tasks to be accomplished at a structural collapse incident.

Module: 6

Title: Vehicle and Machinery Rescue

Terminal Learning Objective:

At the conclusion of this module, the student will be given a scenario, and will summarize all FICO tasks to be accomplished at a vehicle and machinery rescue.

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Module: 7

Title: Water

Terminal Learning Objective:

At the conclusion of this module, the student will be given a scenario, and summarize all FICO tasks to be accomplished at a water rescue incident.

Reference List:

IFSI Special Operations Workbook, Version 1.1

NFPA 1006, Standard for Technical Rescue Personnel Professional Qualifications, 2021 Edition

NFPA 1500, Standard on Fire Department Occupational Safety, Health, and Wellness Program, 2021 Edition

NFPA 1521, Standard for Fire Department Safety Officer Professional Qualifications, 2020 Edition

NFPA 1561, Standard on Emergency Services Incident Management System and Command Safety, 2020 Edition

NFPA 1670, Standard on Operations and Training for Technical Search and Rescue Incidents, 2017 Edition

NFPA 1858, Standard on Selection, Care, and Maintenance of Life Safety Rope and Equipment for Emergency Services, 2018 Edition

NFPA 1983, Standard on Life Safety Rope and Equipment for Emergency Services, 2017 Edition

NFPA 2500, Standard for Operations and Training for Technical Search and Rescue Incidents and Life Safety Rope and Equipment for Emergency Services, 2022 Edition

OSHA 29 CFR 1910.146 – Permit-required confined spaces

OSHA 29 CFR 1910.147 – The control of hazardous energy (lockout/tagout)

OSHA 29 CFR 1926 Sub Part M – Fall Protection

OSHA 29 CFR 1926 Sub Part P – Excavations

Technical Rescue Awareness Student Manual

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Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Module 1 - Standards	15 minutes
Module 2 – Rope and Tower	30 minutes
Module 3 – Confined Space	30 minutes
Module 4 – Trench and Excavations	30 minutes
Module 5 – Structural Collapse	45 minutes
Module 6 – Vehicle and Machinery	45 minutes
Module 7 – Water	45 minutes
