University of Illinois Fire Service Institute

Course Syllabus

Course Title: Common Passenger Vehicle Rescue

Course Duration: 40 hours

Program: Vehicular Rescue Program

Course Prerequisites: None

Course Description: The Common Passenger Vehicle Rescue course is designed to acquaint the student with techniques used in auto extrication. More specifically, the student will become familiar with the different classifications and characteristics of vehicles and machines. Students will also become familiar with the different tools used in extrication, stabilization of the vehicle/machine, disentanglement of the patient(s), and initiating patient care. The student will become familiar with initiating the Incident Command System and how to terminate the incident when finished. The majority of the course will be spent working on the various skills/techniques each student will learn during this course.

Course Requirements and/or Recommendations:

Pre-Course Work – Read Chapters 1 – 4 prior to day one
Course Work – Attend and participate in 100% of the course
Read Chapters 5 – 6 prior to the start of day two
Read Chapters 7 – 8 prior to the start of day three
Completion of the final written exam with a score of at least 70%
Complete and pass all practical skill tests administered.
Post-Course Work – None

Required Textbook:
Vehicle Rescue and Extrication: Principles and Practice, Revised 2nd Edition, J&B

The student will need to acquire the textbook prior to the start of class.

University of Illinois Fire Service Institute

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 Emergencies" section of the IFSI Examination Policy.

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.

Grading Policy: Decisions regarding certificates of course completion shall be made solely by the lead instructor of the course. All grading of exams shall be conducted by the Curriculum/Testing Office. All grading of practical exercises shall be based upon the standards set by the regulatory agency referenced in the course material and IFSI.

> Retesting: If a student fails to pass an exam, retesting takes place on set dates at regional sites across the state. More information is provided in the course completion e-mail and on the IFSI website.

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: Students will be evaluated with an end of course exam and performance evaluation checklists.

Course Content:

Module: 1
Title: Vehicle Rescue Incident Awareness
Terminal Learning Objective:
At the conclusion of this module, the student will describe what it means to be an awareness level responder to vehicle and machinery extrication responses.

Module: 2
Title: Tools and Equipment
Terminal Learning Objective:
At the conclusion of this module, the student will identify the proper personal protective equipment (PPE) and tools needed at a vehicle rescue.

Module: 3
Title: Site Operations
Terminal Learning Objective:
At the conclusion of this module, the student will identify the different stages of vehicle extrication.

Module: 4
Title: Mechanical Energy and Vehicle Anatomy
Terminal Learning Objective:
At the conclusion of this module, the student will describe the anatomy and components of a vehicle system.

Module: 5
Title: Supplemental Restraint Systems
Terminal Learning Objective:
At the conclusion of this module, the student will describe the supplemental restraint systems used in a vehicle.

Module: 6
Title: Advanced Vehicle Technology: Alternative-Fuel Vehicles
Terminal Learning Objective:
At the conclusion of this module, the student will identify the different types of alternative fuel vehicles and their hazards.

Module: 7
Title: Vehicle Stabilization
Terminal Learning Objective:
At the conclusion of this module, the student will describe various ways to stabilize a vehicle at a vehicle incident.

Module: 8
Title: Victim Access and Management
Terminal Learning Objective:
At the conclusion of this module, the student will describe various means to gain victim access.

Module: 9
Title: Alternative Extrication Techniques
Terminal Learning Objective:
At the conclusion of this module, the student will describe alternative extrication techniques that may be used at a vehicle incident.

Module: 10
Title: Terminating the Incident
Terminal Learning Objective:
At the conclusion of this module, the student will describe how to terminate an incident.

Reference List:

NFPA 1006, Standard for Rescue Technician Professional Qualifications, 2021 Edition

Vehicle Rescue and Extrication: Principles and Practice, Revised 2nd Edition, J&B, 2022

University of Illinois Fire Service Institute

Course Schedule

DAY ONE

Event	Duration
Module 1: Vehicle Rescue Incident Awareness	1 Hour
Module 2: Tools and Equipment	1 Hour
Module 3: Site Operations	30 Minutes
Module 4: Mechanical Energy and Vehicle Anatomy	1 Hour
Module 5: Supplemental Restraint Systems	30 Minutes
LUNCH	
Module 6: Advanced Vehicle Technology	1 Hour
Module 7: Vehicle Stabilization	1 Hour
Module 8: Victim Access and Management	1 Hour
Module 9: Alternative Extrication Techniques	30 Minutes
Module 10: Terminating the Incident	30 Minutes

University of Illinois Fire Service Institute

DAY TWO

Event	Duration
Tool Orientation Struts/Buttress/ Stabilization Heavy hydraulics High pressure lift bags All hand tools Electric/Battery tools	4 Hours
Lunch	
Basic Cribbing/Stabilization Car upright Car on roof Car on side Car on barrier Car on car	3 Hours 15 Minutes
Advanced Stabilization Car upright Car on roof Car on side Car on barrier Car upside down on victim through sunroof	
Clean up and review	45 Minutes

University of Illinois Fire Service Institute

DAY THREE

Event	Duration
Drill 1 – Stabilization on wheels	15 Minutes
Drill 2 – Stabilization using jacks	30 Minutes
Drill 3 – Stabilization with lift bags	45 Minutes
Drill 4 – Stabilization on side	30 Minutes
Drill 5 – Stabilization on roof	30 Minutes
Drill 6 – Manage Energy Sources	15 Minutes
Drill 7 – Access Egress Roof, Disentangle	30 Minutes
Drill 8 – Air Chisel Drill	45 Minutes
Lunch	
Drill 9 – Door Removal at the Hinges	45 Minutes
Drill 10 – Dash Lift	45 Minutes
Drill 11 – Dash Roll	45 Minutes
Drill 12 – 5th Door	45 Minutes
Drill 13 – 3rd Door	30 Minutes
Clean up	30 Minutes

University of Illinois Fire Service Institute

DAY FOUR

Event	Duration
Drill 14 – Patient Care, Packaging, and Removal	30 Minutes
Drill 15 – Access Egress Side, Disentangle	30 Minutes
Drill 16 – Access Egress Points	30 Minutes
Disentanglement Practice (All Tools)	2 Hours 30 Minutes
Lunch	
Disentanglement Practice (All tools)	2 Hours 30 Minutes
Clean up	30 Minutes
Course Overview	1 Hour

DAY FIVE

Event	Duration
Final Written Exam	1 Hour 30 Minutes
Final Practical Exam	4 Hours
Clean Up & Tool Maintenance	1 Hour 30 Minutes