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Pennsylvania State Fire Academy

1150 Riverside Drive, Lewistown PA 17044

Minimum Standard for Accreditation (MSA)

Course Title: Vehicle Rescue Operations

Date: 07/01/2015

SFA Course Code: NVRO

Minimum Age: 16

Lecture/Lab Breakdown: 8/12

Minimum Course Length: 20 Hours

Prerequisites: Completion of NVRA, Completion of HMAJB or higher level of Hazardous Materials training or certification

PA DOH Course: 1000035047

Most Recent Revisions

Date	Revisions
March, 2021	Updated Template
September, 2022	Updated Template

Reference Texts: Vehicle Extrication - Levels I & II: Principles and Practice (Jones & Bartlett 2012). PA Department of Health - Basic Life Support Protocols (current edition); NFPA 1006 - Standard for Technical Rescuer Professional Qualifications (current edition); NFPA 1670 - Standard on Operations and Training for Technical Search and Rescue Incidents (current edition)

Course Goal: The goal of this course is to provide the student with an operations level of knowledge and skills necessary to respond to and function at a vehicle accident/rescue incident in accordance with NFPA 1670: Standard on Operations and Training for Technical Search and Rescue Incidents.

Description of Course: This course will provide an operations-level of information and skills as it pertains to vehicle rescue incidents. Topics will include: incident management; tools/equipment; vehicle anatomy/design; hazard control, patient access, care, and packaging; disentanglement; extrication and termination. Upon completion of the course, the student will be eligible to complete the PA Joint Rescue Program Basic Vehicle Rescue examination. Additionally, this course will prepare the student to challenge the IFSAC/Pro-Board national certification as a Vehicle Rescue Technician Level 1 in accordance with NFPA 1006.

Description of Methodology: A combination of lecture, discussion, demonstration, and supervised practice.



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Student Equipment/Supply Needs:

1. Vehicle Extrication - Levels I & II: Principles and Practice (Jones & Bartlett 2012) (must remain in possession of the student throughout the entire course)
2. PA OSFC/BEMS Vehicle Extrication Skills Sheet Book (Must remain in possession of student at the end of the program)
3. Pen/Pencil, notebook suitable for classroom/field use
4. Complete set of personal protective clothing to include helmet, gloves, footwear per either NFPA 1951 or NFPA 1971. Eye (ANSI Z87.1) and hearing protection are required.

Equipment/Audiovisual/Supply Requirements: LCD Projector, Computer, Appropriate lecture area. Appropriate practical demonstration/practice area. Adequate number of vehicles to work on (at least 6-8 for 24-30 students); other equipment as listed in the Instructor Guide.

COURSE OUTLINE

<u>Time</u>	<u>Content</u>
30 Minutes	Program Introduction, 25 Question Assessment of NVRA
1 Hour, 30 Minutes	Review of NVRA Class Materials (Chapters 1-8 and 13)
2 Hours	Victim Access and Management (Chapter 9)
2 Hours	Disentanglement/Extrication Techniques (Chapter 10)
2 Hours	Patient Care and Packaging - Lecture and Demo (Chapter 9, DOH EMS Protocols)
11 Hours	Practical Exercises - Disentanglement, Extrication, and Packaging
1 Hour	De-Brief, Wrap Up, and Evaluations



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Competency Evaluation Mechanism: Successful completion of practical skills as listed in the Pennsylvania State Fire Academy (PSFA)/Pennsylvania Department of Health Bureau of Emergency Medical Services (DOHBEMS) Vehicle Extrication Practical Skills Book provided to each student at the beginning of the NVRA class and successful completion of the integrated exercises as determined by the instructor of record.

The completed/signed PSFA/DOH Bureau of EMS Vehicle Extrication Practical Skills Book must be verified by the lead instructor. Lead instructor must complete the "Rescue Certification Class Verification Form" and submit to the regional EMS councils within three days of the conclusion of the NVRO Course and must accompany your course paperwork submitted to the ETA.

A comprehensive written final, prepared by the PSFA/DOH Bureau of EMS, successful completion of which results in certification as a State Vehicle Rescue Technician Level I through the Pennsylvania Joint Vehicle Rescue Program between the State Fire Academy and Department of Health Bureau of EMS. The written examination will be administered after the successful completion of the twenty (20) hours of instruction required of the Basic Vehicle Rescue Course Outline.

The written final examination **must** be completed within one (1) year of the final date of class. The written examination may **NOT** be administered on the same day as the last day of the NVRO course. Scheduling of the test **shall** be prior to the start of the operations class to allow entities (Regional EMS Council or ETA) ample time to coordinate staff schedules with the request.

The written examination **must** be administered by a representative of an approved ETA, the State Fire Academy (including approved designated certification test sites), or the Bureau of EMS (including regional councils). Test proctor **must not** have been directly involved in instructing the course.



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Course Objectives (specific): Upon completion of the course, in addition to the objectives identified in Vehicle Extrication - Levels I & II: Principles and Practice (Jones & Bartlett 2012) for the chapters that are contained in this course, the student will demonstrate to the satisfaction of the instructor that he/she is able to:

1. Size up existing and potential conditions at vehicle search and rescue incidents
2. Identify probably victim locations and survivability
3. Make search and rescue area safe, including, identifying and controlling the hazards presented by the vehicle, its position, or its systems.
4. Identify, contain, and stop fuel release.
5. Protect a victim during extrication or disentanglement.
6. Package a victim prior to extrication or disentanglement.
7. Access victims trapped in a typical vehicle commonly found in the jurisdiction.
8. Perform extrication and disentanglement operations involving packaging, treating, and removing victims trapped in a typical vehicle commonly found in the jurisdiction through the use of hand and power tools.
9. Mitigate and manage general and specific hazards associated with vehicle search and rescue incidents that involve vehicles commonly found in the jurisdiction.
10. Procure and utilize the resources necessary to conduct vehicle search and rescue operations.
11. Maintain control of traffic at the scene of vehicle search and rescue incident.

Special Notes and Conditions: Minimum enrollment: 10 students; maximum enrollment: 24 students (can be extended to 30 provided adequate instructors and equipment are available). Based on the Instructor Guide, completion of all practical skill objectives will require multiple skill practice stations, with few if any students "observing" or idle during the practical activity. Therefore, the student-instructor ratio of 6 to 1 shall be maintained during all practical exercises based on the total student enrollment of the class. The equipment and facilities requirements in the Instructor guide are essential to completing the course objectives and must be

**While not included in the total class hours above, the student will need to complete assigned reading and self-directed study of the textbook in order to be able to meet the objectives of the program and to successfully complete written and practical skills testing, and thus receive a certificate of completion.