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VEHICLE EXTRICATION



Course Delivery Formats:

- Online Interactive Course
- Online Streamed Video
- DVD

Vehicle extrication emergencies are a leading category of response for fire and rescue personnel. Responding to these incidents is inherently dangerous because of vehicle traffic and many other hazardous conditions. Both patient and responder lives depend on solid, up-to-date training in incident management, basic operational procedures and knowledge of tools and techniques used to complete an efficient and effective extrication. It's critical that emergency responders are aware of hazards and how to control them at an extrication scene. Familiarity and knowledge of equipment use and of new vehicle technology is key to rescuer safety.

To help instructors meet these challenges, we have expanded our Vehicle Extrication series with new programs on hybrid and electric vehicles, advanced steel and alternative techniques for situations when the team must extricate trapped patients without hydraulic rescue tools. This 10-title Vehicle Extrication series builds on the foundation of our existing seven programs, already a mainstay for training in vehicle extrication throughout the fire service.

10 instructor's PowerPoint presentation are also available that can be customized with material such as department specific SOPs. This provides the instructor a professional looking presentation incorporating screen captures and bullet points from the Action Training Systems series.

Technical Consultants:

Ron Moore, Division Chief (Ret.), McKinney (TX) Fire Department, author, Vehicle Rescue & Extrication, Second Edition (Mosby Co.) and Rescue 1-2-3

Jeff Pugh & Kevin Williams, Central Pierce (WA) Fire & Rescue, instructors, Puyallup Extrication Team

Randy Schmitz, Calgary Local 255, Alberta, Canada, educational chairman, TERC Canada

Standards:

All programs teach to the following NFPA standards: 1001 (Firefighter Professional Qualifications: (5.3.3, 6.4.1, 6.4.2); 1006 (Technical Rescuer Professional Qualifications, Chapters 5 and 10); and 1670 (Operations and Training for Technical Rescue Incidents, Chapters 4 and 8).

PowerPoint titles match course titles listed below along with descriptions, training objectives and video run time and slide count for each title.

1. Incident Overview

Video time: 20:07 #PPT Slides - 67

Discusses initial arrival and establishing command. Defines how to size up the scene and locate hazards. Gives an overview of patient access, disentanglement and extrication.

Training Objectives:

1. Demonstrate initial arrival at a rescue scene and establishing command
2. Demonstrate how to size up a rescue incident
3. Show how to locate hazards
4. Demonstrate patient access
5. Demonstrate patient disentanglement
6. Show patient extrication from a crashed vehicle

2. Stabilization

Video time: 19:02 #PPT Slides - 63

Demonstrates how to stabilize a vehicle on four wheels, a side-resting vehicle and a roof-resting vehicle. Shows how to prevent sliding movement and how to stabilize a vehicle on another object. Discusses patient stabilization.

Training Objectives:

1. Demonstrate how to stabilize a vehicle resting on its wheels
2. Demonstrate stabilization of a vehicle resting on its side
3. Demonstrate stabilization of a vehicle resting on its roof
4. Show how to prevent sliding movement of a vehicle
5. Demonstrate stabilization of a vehicle on another object
6. Show patient stabilization

3. Hazard Control and Safety

Video time: 22:10 #PPT Slides - 82

Describes glass types and removal techniques. Identifies airbag locations and hazards. Demonstrates how to shut down the vehicle's electrical system. Discusses restraint systems

Training Objectives:

1. Demonstrate how to identify and remove different glass types
2. Show how to locate and control airbag hazards
3. Identify safety restraint systems and their hazards
4. Demonstrate shutdown of a vehicle's electrical system
5. Identify high-voltage components and their hazards

4. Initial Procedures Video time: 16:01 #PPT Slides - 56

Demonstrates how to access the patient, how to access the battery and how to open a jammed trunk. Shows how to remove a windshield and how to create interior space.

Training Objectives:

1. Show how to access a patient
2. Demonstrate battery access
3. Demonstrate opening a jammed trunk
4. Show windshield removal
5. Demonstrate creating interior

5. Door and Sidewall Procedures Video time: 18:17 #PPT Slides - 59

Demonstrates opening a jammed door. Presents a hinge attack and a latch attack. Shows how to do a vertical crush and how to create a third door. Demonstrates total door removal and total sidewall removal.

Training Objectives:

1. Demonstrate how to open a jammed door
2. Demonstrate how to perform a vertical crush
3. Show how to create a third door
4. Demonstrate total sidewall removal

6. Roof and Trunk Procedures Video time: 16:47 #PPT Slides - 62

Demonstrates how to work with a collapsed roof. Presents the roof flap and the C-B-A roof pillar cut. Shows the procedure for total roof removal. Demonstrates trunk tunneling.

Training Objectives:

1. Demonstrate procedures on a collapsed roof
2. Demonstrate a roof flap
3. Show how to lay down a roof
4. Demonstrate total roof removal
5. Demonstrate trunk tunneling

7. Interior Procedures Video time: 16:57 #PPT Slides - 58

Demonstrates how to relocate a steering column. Shows how to move the dash, how to remove and relocate pedals and how to remove and relocate seats.

Training Objectives:

1. Demonstrate how to relocate a steering column (*Revised for new title)
2. Show how to move a dash
3. Show how to relocate or remove a pedal
4. Show how to relocate or remove a seat

8. Hybrid & Electric Vehicles

Video time: 19:33 #PPT Slides - 82

Shows basic propulsion systems and common components of hybrid and electric vehicles. Demonstrates seven steps to approach and shutdown of crashed vehicles. Shows alternative procedures for shutdown when the ignition or keys are not accessible.

Training Objectives:

1. Present basics of hybrid and electric vehicles
2. Show common components and systems in hybrid and electric vehicles
3. Demonstrate on-scene approach and shutdown procedures
4. Demonstrate alternative shutdown actions

9. Advanced Steel

Video time: 13:17 #PPT Slides - 48

Shows the rescue challenges presented by increased use of reinforced steel and ultra-high strength steel (UHSS) to protect passengers in vehicle crashes. Shows tools needed to penetrate advanced and reinforced steel, and how to use hydraulic power cutters to cut advanced and reinforced steel. Demonstrates “workaround” techniques to extricate patients trapped when advanced-steel-capable cutting tools aren’t available.

Training Objectives:

1. Introduce the basics of advanced steel
2. Demonstrate effective cutting tools and techniques for advanced steel
3. Demonstrate extrication techniques to consider when confronted with advanced steel

10. Hand Tools Only

Video time: 23:19 #PPT Slides - 97

Shows the components and general operating procedures for non-hydraulic rescue tools, such as rescue air chisels, reciprocating saws and manual jacks. Demonstrates alternative hand-tools-only methods for hood-opening, door and window techniques, roof access, trunk tunneling and interior procedures.

Training Objectives:

1. Present uses and general operating procedures for air chisels and reciprocating saws
2. Present uses and general operating procedures for manual jacks
3. Demonstrate hand-tool techniques for hood access
4. Demonstrate door and window techniques using hand tools
5. Show roof access techniques using hand tools
6. Demonstrate trunk tunneling with hand tools
7. Show interior procedures using hand tools

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Innovative Training Systems for Emergency Responders



NFPA 1001: *Standard for Fire Fighter Professional Qualifications, 2013*
NFPA 1006: *Standard for Technical Rescuer Professional Qualifications, 2013*
NFPA 1670: *Standard on the Operations and Training for Technical Search and Rescue Incidents, 2009*

VOL#	Vehicle Extrication Title	NFPA 1001	NFPA 1006	NFPA 1670
001	**Incident Overview**	5.3.3, 6.4.1, 6.4.2	5.2.2, 5.2.3, 5.2.4, 5.2.5, 10.1.1, 10.1.2, 10.1.5, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2, 8.2.3, 8.3.3, 8.3.4
002	**Stabilization**	6.4.1, 6.4.2	5.2.3, 5.2.5, 10.1.4, 10.1.6, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2, 8.3.3, 8.3.4
003	**Hazard Control & Safety**	6.4.1, 6.4.2	5.2.2, 5.2.3, 10.1.3, 10.1.5, 10.1.8	4.5.1.1, 4.5.1.2, 8.3.3, 8.3.4
004	**Initial Procedures**	6.4.1, 6.4.2	5.2.5, 10.1.5, 10.1.6, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2. 8.3.3, 8.3.4
005	**Door & Sidewall Procedures**	6.4.1, 6.4.2	5.2.5, 10.1.6, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2, 8.3.3, 8.3.4
006	**Roof & Trunk Procedures**	6.4.1, 6.4.2	5.2.5, 10.1.6, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2, 8.3.3, 8.3.4
007	**Interior Procedures**	6.4.1, 6.4.2	5.2.5, 10.1.6, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2, 8.3.3, 8.3.4
008	**Hybrid & Electric Vehicles**	6.4.1, 6.4.2	5.2.2, 5.2.3, 5.2.4, 5.2.5, 10.1.1–10.1.5	4.5.1.1, 4.5.1.2, 8.2.3, 8.3.3, 8.3.4
009	**Advanced Steel**	6.4.1, 6.4.2	5.2.2, 5.2.3, 10.1.1, 10.1.6, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2, 8.3.3, 8.3.4
010	**Hand Tools Only**	6.4.1, 6.4.2	5.2.3, 10.1.6, 10.1.7, 10.1.8	4.5.1.1, 4.5.1.2, 8.3.3, 8.3.4

(The NFPA sections cited are only a guide. Additional NFPA sections may apply.
See compatible textbooks for an NFPA Correlation Guide.)