

**IDHS DIVISION OF TRAINING**  
**Operations Vehicle Rescue**  
**Practical Skill and Examination Handbook**  
**Effective August 18, 2011**

## **Vehicle Extrication**

### **Vehicle Extrication (2009 NFPA® 1670, 8.3.4)**

#### **Directions**

For this skills evaluation checklist, students will prepare to extricate a victim, manage hazards, stabilize a vehicle and move or remove the following: vehicle doors, windshields, windows. Various tools, equipment, and techniques are effective. Please follow manufacturer guidelines for the safe and correct operations of tools and equipment as well as departmental guidelines on specific methods to follow. If your department/agency has not established these methods, please refer to the IDHS **Operations Level Vehicle Rescue Curriculum Package**, for details on techniques. The firefighter gathers the proper equipment and tools and is wearing the appropriate PPE prior to performing extrication tasks.

**\*\*This should be conducted by teams of two or more. It is not necessary for every student to complete every portion of this although each team must perform each task listed below.\*\***

#### **Equipment & Materials**

- Two passenger dummies
- Full protective clothing and eye protection for three to four firefighters
- Hand and power tools listed in ops curriculum package
- Wrecked automobile(s) appropriate for skill demonstration
- Tarp, blanket, and backboard or other method of protecting victims
- Equipment as required to stabilize vehicle (cribbing, wedges, step blocks, etc.)

#### **Skills Evaluation Checklist**

<b>Task Steps</b>	
1	Determine viable victims (rescue or recovery)
2	Determine size and number of vehicles

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3	Describe integrity and stability of vehicles
4	Determine number of known or potential victims
5	Determine hazards of disrupted or exposed utilities including standing or flowing water, mechanical hazards, hazardous materials, electrical hazards, and explosives
6	Protect operations from exposure to traffic
7	Describe environmental factors and impact on operation
8	Describe available versus necessary resources for operation

<b>Task Steps</b>	
1	Establish operational zones (i.e. hot, warm, cold) and site security using scene tape
2	Using specific techniques and tools (including cribbing, chocks, and wedges), perform vehicle stabilization
3	Using specific techniques and tools, control hazards of involved vehicle
4	Make the search and rescue area (hot zone) safe for entry
5	Safely undertakes disentanglement and/or extrication operations using hand tools
7	Support/assist with supporting unbroken utilities when necessary
8	Provide/assist with providing protective equipment for victims if possible, when necessary
9	Prohibit entry into an unsafe vehicle search and rescue area
10	Prevent the touching or operating of equipment involved until its safety has been established
11	Identify or explain the use or potential use of non-sparking tools where a flammable atmosphere exists.

<b>Task Steps</b>	
1	Identify types of passenger restraint systems (including airbags)
2	Identify frame and construction features of vehicles
3	Identify types of suspension systems in vehicles
4	Identify or explain types and classifications of impacts

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5	Explain categories of mechanical injuries
6	Perform/assist with performing various types of stabilization
7	Demonstrate the use of cribbing and chocks
8	Demonstrate the building of a box crib
9	Apply cribbing to achieve 4-point stabilization to a vehicle
10	Demonstrate the use and types of levers for mechanical advantage
11	Demonstrate proper and effective use of hand tools including: sledge hammer, pry bar, glass punch, halligan, knife/belt cutter, cable cutter, and come-a-long
12	Perform/assist with performing disentanglement through primary access points
13	Package/assisted with packaging a victim prior to removal from a vehicle
14	Provided/assisted with providing protection of a victim during extrication/disentanglement
15	Demonstrate proper and effective use of power tools such as hydraulic, pneumatic, and electrical spreading, cutting, lifting, and ram-type tools
16	Explain or identify lternative fuel sources found in vehicles
17	Explain or perform mitigation and management of the hazards identified of a vehicle incident (i.e. utilities, hazardous materials, hazards to personnel, release of hydtaulic/pneumatic high pressure systems)