

Auto Extrication – Lab

Objectives: (NFPA 1001 5.3.2(B))

- Ability to assemble a team
- Ability to operate hand and power tools
- Ability to use cribbing and shoring materials

Equipment:

- All hand tools used in auto extrication
- All power and hydraulic tools used in auto extrication
- Rescue jacks
- Crib of Cribbing
- SCBA bottles
- Maze box

Instructors:

One Lead; Three instructor (one for each station)

Time:

4 hours

Support Staff:

Rescue Operator

Instructions

The lead instructor shall have the students assemble into teams of three (3) (Group A, Group B, and Group C). Each team will be assigned a station to start and once everyone completes their assignments the teams will rotate. The three stations are Station 1: Power Tools, Hand Tools, Size-up, & Patient Info. Station 2: Hydraulic/Battery Power Tools. Station 3: Vehicle anatomy & Stabilization. At the end of the training the students will clean and properly store the tools and equipment back in its stored place

Power Tools, Hand Tools, Scene Size-up & Patient Info

Instructors will place onto a salvage cover several different types of power, pneumatic and hand tools. The instructor shall discuss how to assemble, operate and maintain each of the types of tools. Students should be able to recognize each type of tool, assemble, how to operate and maintain each type of tool.

Instructors should discuss a proper scene size-up of vehicles (number of vehicles, number of injuries, number of victims, condition and type of vehicle, hazards – power-lines, fuel leaks, fire, hazardous materials, brief overview of patient care and crowd control)

Hydraulic/ Battery Power Tools

The instructor shall discuss the proper handling, maintenance, set up of the hydraulic tools/battery tools, and operation of the tools. All tools will be placed onto a salvage cover when not in use. The instructor(s) shall build a Jenga stack of 4x4x2 cribbing and set two tall cones spaced about 15 feet apart.

To build the fine motor skills needed to use the spreader tools each student shall remove one of the 4x4x2 blocks and will continue using the rules of Jenga. Other students will use the spreaders to grab and carry an object from one cone to another.

Vehicle Anatomy & Stabilization

Instructors shall discuss with student's vehicle hazards and where they are located, how to disconnect battery location(s) and how to disconnect.

Basic vehicle information will be discussed – uni-body / frame, solid frame vehicle's power source, crumple / crush zone, LPG, electric and hybrid.

Instructors should discuss and demonstrate vehicle stabilization using step chokes, cribbing, air bags and rescue jacks (proper location of each item). Students will place step chokes, cribbing and rescue jackets to the proper location to stabilize vehicles.

Students will operate air bags using the maze to move a ball from one end to another end of the maze. This will help students work together and how to properly operate air bags.