



# FETI

## DRILL GUIDE



### **Topic: Extrication Tool Operation (Firefighter Jenga®)**

Reference #: 15-09

Level of Instruction: In service personnel

Time Required: 3 hours

### **PURPOSE**

The purpose of this drill is to refresh members on extrication tool operation, and to improve the firefighter's physical skills with the tools.

### **OBJECTIVE**

At the conclusion of the drill, each participant will:

- Demonstrate connection of the tools to the power plant
- Be familiar with the operating features of the extrication tools in your department and have a better understanding on how they operate

### **INSTRUCTOR PREPARATION**

This drill requires some preparation in order to have the materials to successfully perform this drill. Many departments have cribbing that can easily be used for this drill, you may need to acquire some 4"x4" lumber to cut into appropriate length.

This drill can be done virtually anytime, night or day, and in inclement weather also.

### **EQUIPMENT**

1. Your station's apparatus
2. Your departments extrication tools
3. 4"x4" lumber cut into 24" lengths, or cribbing your department already has
4. Traffic cones
5. Raw eggs, canned goods, or plastic water bottles, use your imagination
6. PPE for participants per your department's extrication SOG/SOP's

### **SAFETY PRECAUTIONS**

This drill can be done outside the station, or, if inclement weather, inside the bays. If conducting the drill in the station bays, move the rig outside so the fumes from the power plant or rig engine will not produce a toxic environment inside the bays. Consider hearing protection for the members that are operating around the power plant.

## STUDENT MOTIVATION

Many times, we use the extrication tools only when we have a vehicle to work with, or, we are on the scene of an actual emergency. This is a competitive drill that we can do with minimal equipment, and learn how to “finesse” our tools by picking up eggs, canned goods, or plastic bottled water without crushing them. This drill is basically a firefighter game of Jenga®, played with cribbing and tools. Such finesse may be necessary when combined with the brute strength of the tools to prevent injury to trapped occupants of vehicles.

## DRILL

### Instructor Set-up

1. Safely position the rig and ensure the exhaust fumes are not going to create a hazardous environment for the students.
2. Oops is not an option: (don't crush the egg/can):
  - a. Set up two or three traffic cones to move a raw egg, or canned goods. (See picture Figure 1)
  - b. Have firefighter use the tools to pick up and move an egg, or other item from one traffic cone to the other without breaking or crushing it.
3. Jenga:
  - a. Cribbing Assemble a tower of 4"x4" lumber or cribbing by setting three pieces, and alternate direction opposite of first level with spaces in between (See Figure 2).
  - b. Using the tools, have firefighters take turns removing and replacing the cribbing on top of the stack without knocking the stack over. They are not allowed to hold stack in place with hands while removing and replacing the cribbing.
  - c. If and when the stack collapses, the person making the stack fall is the loser.
  - d. Strategy and tactics on selecting the pieces and removing and replacing them is up to the firefighters.



Figure 1 Can on cone - grasp and DON'T CRUSH



Figure 2 Cribbing Jenga®

## CONCLUSION OF DRILL

After the drill is over, place cribbing back on the rig, refuel the power plant, and return all of the equipment back in service.

## REVIEW:

As firefighters, we can be called to an emergency for extrication at any given moment. Our familiarization with our tools and how they work is paramount. We must maintain a state of readiness at all times, and this drill is a fun and easy way to be proficient with the use of extrication tools.

Source: First Due Tackle (blog) “Firefighter Jenga” <http://www.firstduetackle.com/2015/08/11/firefighter-jenga/> and Hydraulic Tool Control <http://www.firstduetackle.com/2015/08/12/hydraulic-tool-control/>

