

HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV) EGRESS ASSISTANCE TRAINER (HEAT)

**Training Category/Level Utilized:**

Transportation/ On-Site Personnel Trainer/Level 1

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

(Information not available)

Purpose of Trainer:

The HEAT is used to provide safety instruction for vehicle occupants using a salvaged HMMWV body with doors, gunner's hatch, and ancillary items of correct dimensions and weight, such as seat belts; VIC-3 radio communications; gunner's platform; and combat locks. The purpose is to reduce injuries and fatalities associated with HMMWV rollover accidents. The trainer exposes the soldier to the disorienting effect of a vehicle rollover, and the associated physical effort required to execute a safe escape from an overturned vehicle. The HEAT builds and reinforces crew confidence by physically rehearsing and executing the steps required to survive a vehicle rollover.

Functional Description:

The trainer mechanically rotates the HMMWV training compartment in either direction through 90 to 180 degrees within nine (9) seconds of activation, and then returns the crew compartment to an upright position at the completion of the exercise. The HEAT is equipped with the capability for audio communication from the I/O to the students inside the trainer. The system has two video cameras in the crew compartment to give the I/O situational awareness of the interior; and also provides a recording tool for After Action Reviews (AAR). I/Os have the ability to stop and hold the trainer stationary at any time during operation,

observing from any location in and around the device while using a remote control incorporating a dead man safety switch feature. Students also have the ability to stop the device from within the trainer via an emergency stop (E-Stop) button. The trainer automatically stops rotating if vehicle door combat locks are not properly engaged. The trainer can be operated indoors as well as outdoors in various weather environments. The HEAT is transportable on common military trailers using existing material handling equipment.

Physical Information:

HEAT in Stowed Position

- Height: 97 inches
- Width: 106 inches
- Length: 177 inches
- Weight: 13,200 lbs.

HEAT Fully Operational

- Height: 121 inches
- Width: 182 inches
- Length: 177 inches
- Weight: 13,200 lbs.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

No special requirements

Power Requirements:

The HEAT has battery power and can also be powered by existing, electrical power sources (110 and 220 voltage), using a power cable with universal power adapters.

Applicable Publications:

Operator Manual, Maintenance Manual

Reference Publications:

None

Training Requirements Supported:

Trains all MOSC series.