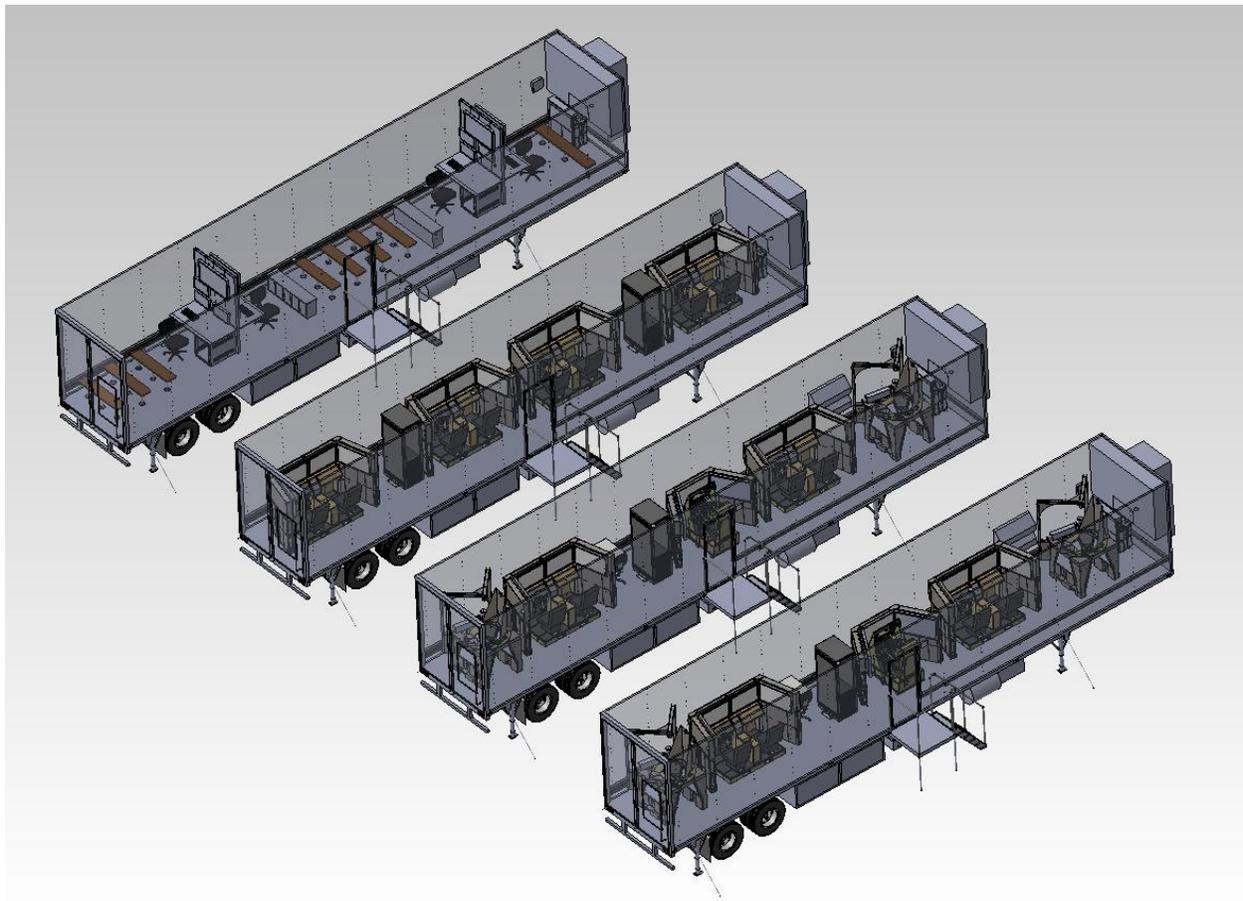


Virtual Clearance Training Suite (VCTS)



Training Category/Level Utilized:

Engineer/Level 1/2/3

Purpose of Trainer: The purpose of the VCTS is to provide individual and collective training for Counter-Improvised Explosive Device (C-IED) missions to Route Clearance Units in a virtual environment.

The individual/crew training curriculum consists of 40 hours of basic and advanced route clearance training scenarios. With a wide variety of environmental conditions (day, night, rain, snow, fog, sand storms) and virtually any type terrain imaginable, the VCTS system will provide Route Clearance Company Soldiers with experience in any situation they are likely to encounter.

The modular design of VCTS provides a highly flexible training environment for the Army. Instructor Operators can select individual vehicles or a mission typical mix of vehicles for training scenarios. Vehicle dynamics and interchangeable dash panels enable rapid upgrades of the system to meet changing theater requirements.

Functional Description:

The VCTS is a self-contained, mobile system mounted in 53' trailers. The suite consists of an After Action Review/Instructor Operator trailer, and three trailers of individual/crew training stations for the following Route Clearance systems:

- Mine Protected Clearance Vehicles (MPCV) Buffalo
- Vehicle Mounted Mine Detector (VMMD) Husky
- Medium Mine Protected Vehicle (MMPV) RG-31MK5E or Panther
- Man Transportable Robotic System (MTRS) Talon IIIb

In addition to realistic vehicle dynamics, the simulators include a physics-based interrogator arm simulation for the Buffalo, operations with or without the mine detonation trailers for the Husky and gunner stations for the RG-31MK5E or Panther. The interchangeable dash panels enable rapid reconfiguration between RG-31MK5E's and Panther variants.

Physical Information:

Trailer #1 After Action Review (AAR) /IO Stations

Height: 13'6"
 Width: 8'6"
 Length: 56'
 Weight: 33,382 Lbs
 Power: Shore Power or Mounted Diesel Generator

Virtual Clearance Training Suite (VCTS)

Trailer #2 Mine Clearance Protected Vehicle (MPCV)**Buffalo Trainer**

Height: 13'6"

Width: 8'6"

Length: 56'

Weight: 33,382 Lbs

Power: Shore Power or Mounted Diesel Generator

Trailer #3 and Trailer #4 (Duplicate)**Medium Mine Protected Vehicle (MMPV) RG-31/Panther Trainer, Vehicle Mounted Mine Detector (VMMD) Husky Trainer and Man Transportable Robotic System (MTRS) Talon Robot Trainer**

Height: 13'6"

Width: 8'6"

Length: 56'

Weight: 33,382 Lbs

Power: Shore Power or Mounted Diesel Generator

Source and Method of Obtaining: Available through local TSC**Logistic Responsible Command, Service, or Agency:**
PEO-STRI, Orlando FL**Equipment Required, Not Supplied:** None if connected to shore power. If running on generator power, diesel fuel is required to power the four trailers.**Special Installation Requirements:** Stable area with gravel or concrete pad large enough to stage four 53 foot trailers. Grounding protection is required at every training site for all four trailers. Stairs and other minor operating devices require simple installation.**Any special instructions other than those already explained?** No.**Power Requirements:**

Each trailer requires Single-Phase 208/240/120 VAC, four-wire service. If shore power is not available, the VCTS can run on generator power from the on-board generators.

Applicable Publications: TM (Pending/unreleased)**Reference Publications:****Any other publications that can be used other than the TM's for information about this device?**

VCTS Operator's Manual.

Training Requirements Supported:

This training device will support all MOS' with a need to improve IED-D, C-IED skills, Route Clearance Mission rehearsals and Convoy training.