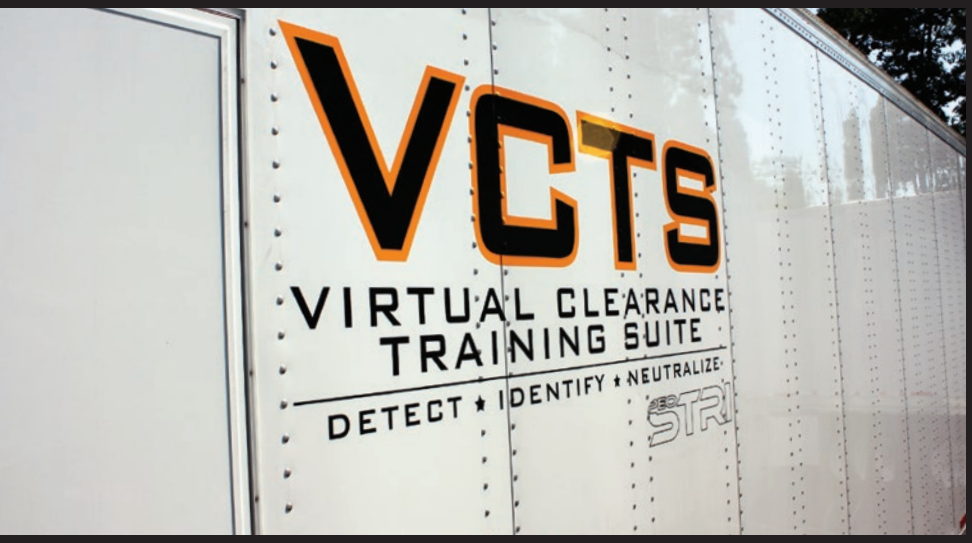
MILITARY
SIMULATION TRAINING

VCTS
VIRTUAL CLEARANCE TRAINING SUITE



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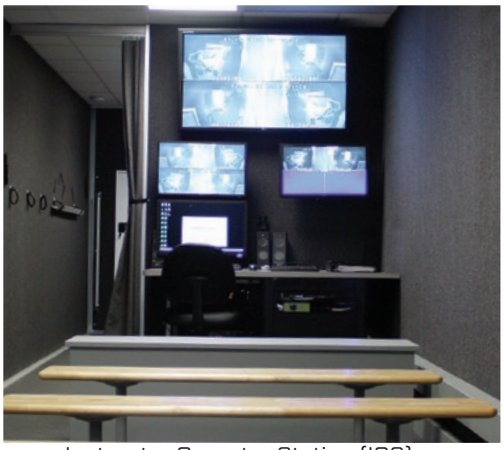
FAAC INCORPORATED

Real experience for Explosive Hazard Defeat Missions

FAAC provides state-of-the-art simulators to train engineer vehicle and equipment operators for the explosive hazard defeat mission. Configured in self-contained 53' semi-trailers, the VCTS allows individuals and crews to learn and master all tasks likely to be encountered during clearance missions without risk to man or machine. Specific features include:

- Full suite of simulated vehicles and equipment:
  - Mine Protected Clearance Vehicle (MPCV – Buffalo)
  - Vehicle Mounted Mine Detector (VMMD – Husky)
  - Medium Mine Protected Vehicle (MMPV – Type I Panther and Type II RG-31MK5E)
  - Man Transportable Robotic System (MTRS – Talon III b)
- Four Instructor/Operator Stations with classroom/AAR/mission planning areas
- Unparalleled realism and high fidelity vehicle dynamics for believable operational experience
- Physics-based Interrogation Arm simulation for the Buffalo
- Husky operations with or without HMDS GPR
- Gunner's Station (GS) for each MMPV Variant
- VOSS – Vehicle Optics Sensor System
- Individual/Crew training curriculum



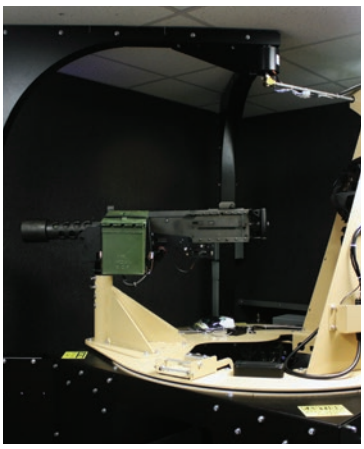
Instructor Operator Station (IOS), After Action Review Classroom

MPCV Buffalo

MMPV

VMMD Husky

MTRS Talon



Gunner Station

Vehicle Optics Sensor System (VOSS)

Smart Solutions for the most effective training.

In May 2011, the U.S. Army selected FAAC Incorporated to supply its Counter-Improvised Explosive Device (C-IED) / Explosive Hazard Defeat Training Simulation Suite. The program designated Virtual Clearance Training Suite (VCTS)—is modular by design and builds on the simulator technology developed for the US Army Operator Driving Simulator (USA ODS) and US Army Common Driver Trainer (CDT) programs. FAAC received a contract modification in May 2014 adding a 5th trailer, two VMMDs, and multiple system upgrades including integration of One SAF 6.0, a One SAF HEMTT Recovery Vehicle, a Buffalo Air Digger and conversion of MPCV & MMPV cabs to a Common Dual Cab (CDC) configuration. Phase 1 modifications to the original 28 Suites are scheduled through September, 2016. FAAC provides interim contractor logistics support as required.

Each fielded VCTS is a self-contained, mobile system mounted in five networked 53' semi-trailers, located at Active, Guard, and Reserve sites around the world. The suite consists of:

Trailer 1: Instructor Operator Station (IOS) / After Action Review (AAR) / Classroom

- Four IOSs, each can control up to 18 Student Training Stations (STSs) enables individual, crew and collective training
- Advanced communications, direct to one or all associated STSs; or via one of three assigned simulated networks (PLT/CO, CO/BN, Fire Support)
- Curriculum includes 40 hours of basic and advanced training scenarios with auto or instructor scoring, jump-back, and AAR capture
- Scenario generation capability; can add complexity or adapt scenarios to unit TTPs
- Geo-typical and geo-specific terrain, plus varied environment conditions (day, night, rain, snow, fog and storm) enable training under any conceivable condition
- Classrooms provide seating for 5, 10 or 25 students – facilitate planning, mission briefings, and detailed AARs

Trailer 2: MPCV (Buffalo)

- Four high fidelity open cab Buffalo STSs provide realistic individual and crew training
- Dash panels replicate current vehicle and include MPCV OEM Interrogation Arm controls
- Physics based arm model enables realistic interrogation of possible IEDs
- Three simulated networks, intercom, plus direct communication with the instructor from each STS

Trailers 3 & 4: Identical, each contains 2-MMPV, 2-GS, 1-VMMD, 1-MTRS

- MMPV features FAAC interchangeable self-recognizing dash panels, enabling rapid change between Panther or RG-31 variants – Cougar also available
- GS features head-mounted displays and .50 caliber simulated machinegun
- VMMD features metal detection, high-fidelity realistic sound replication, simulated marking, Husky Mine Detection System (HMDS) with Ground Penetrating Radar (GPR)
- MTRS Talon, actual OEM controls modified for simulation use, replicates all Talon behaviors: realistic movement, visual inspection, IED interrogation and detonation
- Three simulated networks, intercom, plus direct communication with the instructor from each STS

Trailer 5: 2-VMMD with same capabilities as VMMD in trailers 3 & 4 / 2-VOSS with:

- Vehicle-mounted sensor package, Day, IR, and I2
- Laser range finder and laser illuminator on a telescoping mast

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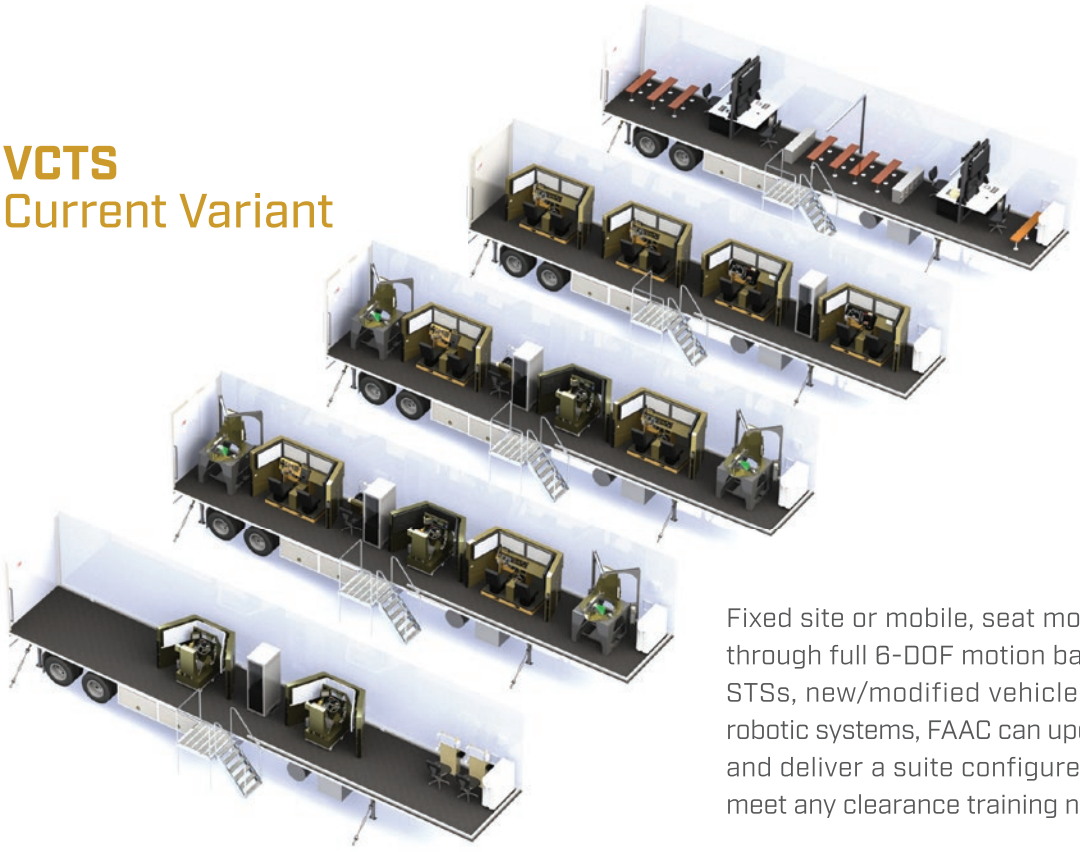
Variety of configurations for
realistic and affordable training.

The advanced IOS, multi-net communications, scenario generation system and updated databases ensure the VCTS is the Army's most configurable and flexible ground simulation training suite. In addition, FAAC designed the VCTS with a modular upgrade/modification capability to meet evolving requirements. FAAC is in Phase 1 of a multi-year upgrade with planned addition of remote controlled vehicles and weapons stations, new sensors, blowers, rollers, and complex IEDs.

VCTS
Current Variant



Fixed site or mobile, seat motion through full 6-DOF motion based STSs, new/modified vehicles or robotic systems, FAAC can update and deliver a suite configured to meet any clearance training need.

For over 40 years, FAAC Incorporated has been providing systems engineering services and simulation products for military, government, and private industry use. We are committed to the principles of customer satisfaction, concern for employees, and community involvement. Our philosophy is to develop effective, high quality products and to provide proactive, timely support for our customers while maintaining high ethical standards. References, studies, and customer findings confirm high marketplace satisfaction with FAAC products.

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