MILITARY
SIMULATION TRAINING

CCS
Combat Convoy Simulator Training Suite

FAAC

CCS

Real Experience for Military Vehicles Combat Convoy Training

FAAC provides state-of-the-art simulators to train service members in basic and advanced convoy skills using different terrains and roads in a variety of weather, visibility, and vehicle operational conditions. The weapons used in the CCS training include handheld rifles M16/M4 and crew served weapons M2, M240B, and MK19.

- Simulated vehicles: HMMWV and MTVR
- Instructor/Operator Station with classroom/AAR/mission planning areas to include sand tables
- Unparalleled realism and high-fidelity vehicle dynamics for believable operational experience
- Uses Semi-Automated Forces System
- C-IED Jammer System
- Binoculars
- Gateway connectivity to external systems
- Integrated JBC-P/JV-5 Blue Force Tracker
- Student Indoor Tracking

Crew Served Weapons

Mounted Training

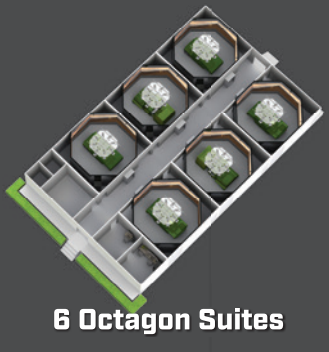
Instructor Operator Station (IOS)

Dismounted Training

Dismounted Small-Arms Weapons

JBC-P/JV-5 Blue Force Tracker

MTVR & HMMWV Vehicles


6 Octagon Suites

Smart Solutions for the Most Effective Training

The CCS provides unit training in convoy operations proficiency for basic and advanced convoy skills in variable terrain, weather, visibility and operational conditions. The CCS incorporates small arms and crew-served weapons to provide a flexible solution that supports the full range of training scenarios and enables rapid integration of lessons learned. CCS training also includes vehicle to vehicle coordination (up to 6), Call for Fire (CFF), and Close Air Support (CAS).

Crews increase or sustain proficiency by completing exercises requiring the performance of tasks like those encountered in combat.

These tasks must be performed both while the vehicle is fully operational and with instructor-induced malfunctions. CCS training is self-paced and adaptive to the needs and skills of each crew.

CCS Instructor Operator Station (IOS) provides access to all the instructional features of the CCS program and facilitates the instructor/operator with an optimum environment to initialize, monitor, control, and review the exercises. Primary IOS workstation capabilities include initializing the CCS, creating, entering, modifying, copying, storing exercise initialization conditions, and allocating simulation resources such as Student Training Stations (STS), to name a few.

Some of the primary IOS workstation components and associated equipment include:

- 3D Stealth CGI Monitors
- EC/SG/RTA (Run-Time Authoring) Monitors
- AAR Monitors
- JBC-P/JV-5 Blue Force Tracker
- Intercom

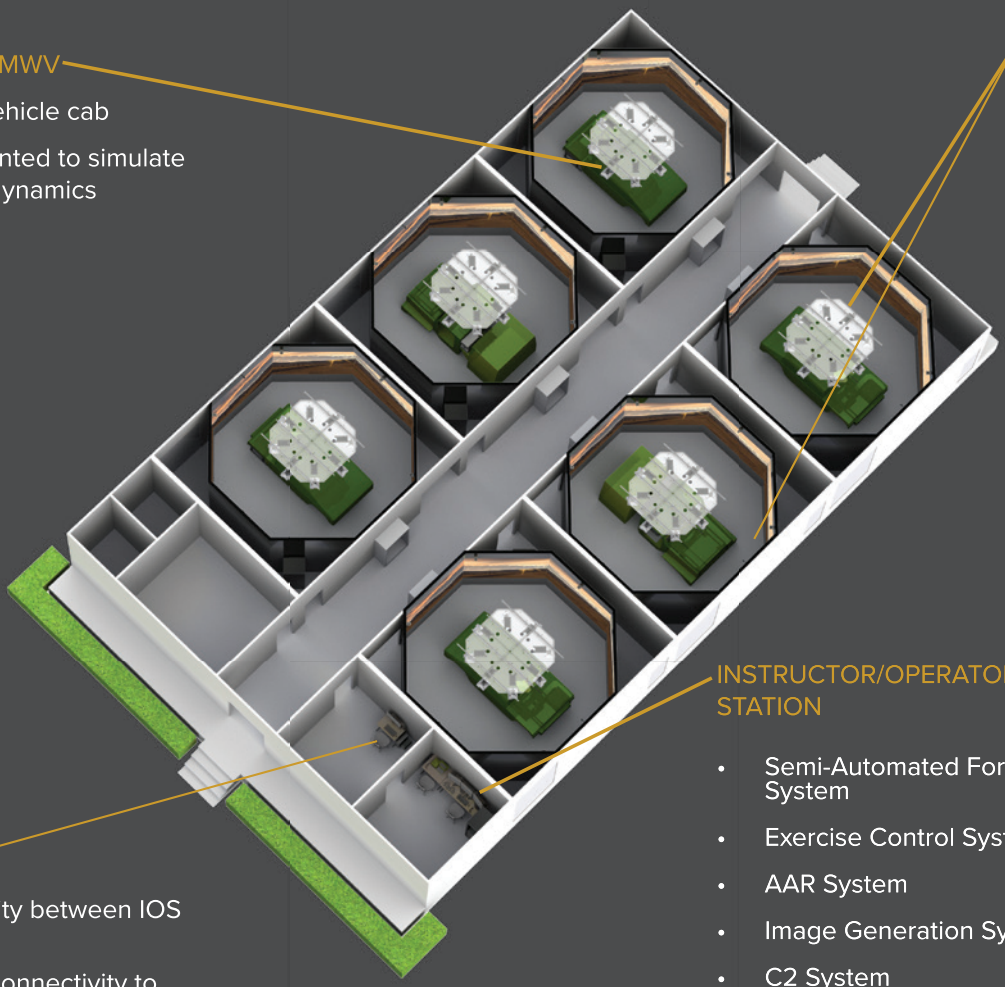
CCS vehicles are realistic simulated replicas of actual M1151 HMMWV and MK23 MTVR with the Marine Armor Protection (MAP) kits used in the conduct of military operations. The vehicle simulators accommodate drivers, passengers, gunners, and students seated in the rear. The vehicles are designed to model the actual vehicle's behaviors and require the driver to perform all tasks as if he were in the actual vehicle. The CCS vehicles have CREW2 Switch Box integrated into the simulation, simulated AN/VRC-113 Radios, operational instrument panels, steering column actuation, braking system, starting system, and JBC-P/JV-5 Blue Force Tracker integration.

CCS provides realistic simulated weapons for mounted and dismounted use. The weapons replicate the visual appearance, weight, and balance within 10% of the actual weapons platforms. The force required to operate the simulated weapons' controls is also equivalent to the real weapons. Each simulated weapon mimics the recoil and ballistics characteristics of the actual weapon and can engage and destroy targets in the CCS simulated combat environment. The CCS weapons also include a simulated MK3 MOD 0 surface projector pen flare that simulates the firing of an MK 80 MOD 2 (red) hand-fired signal.

Variety of Configurations for Realistic and Affordable Training

The Combat Convoy Simulators provide an immersive training environment for convoy operations. CCS provides training for vehicle crew in both vehicle and small arms weapon utilization. The system is also utilized to train command and control procedures and crew response to improvised explosive device attacks, ambush attacks, evolving enemy tactics, and countermeasures.

CCS Training Suite



MTVR or HMMWV

- Actual vehicle cab
- Instrumented to simulate vehicle dynamics

STUDENT STATION

- Image Generation System
- Weapons System
- Communication System
- Sound Generation System
- Ownship Vehicle System
- Display System
- C-IED System
- C2 System
- Vehicle Chassis
- Binoculars

INSTRUCTOR/OPERATOR STATION

- Semi-Automated Forces System
- Exercise Control System
- AAR System
- Image Generation System
- C2 System
- Communication System

NETWORK

- Connectivity between IOS and SS
- Gateway connectivity to external systems

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FAAC.COM

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