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MAIN BATTLE TANK CREW TRAINER WHEN PRECISION COUNTS

Saab's Main Battle Tank Crew Trainer is superior for live precision gunnery and combat training. The MBT Crew Trainer forces the entire crew to perform accurate and correct procedures and drills. Those who don't will fail. There are no shortcuts to success. The realism and experience provided by the tank trainer give crews performance confidence, and they will be prepared to act as a deterrent in military conflicts.

The MBT Crew Trainer takes the crew as close to live fire as they can get. The trainer allows training in all tank operational modes, including "emergency mode" where the gunner manually rotates and elevates the gun, and must use the auxiliary sight and the "emergency firing switch". The loader must "load" the correct ammunition and the commander supervises performance as in real combat. Units are forced to train as they fight,

as nothing less provides correct and true experience.

The MBT Crew Trainer reduces time to mission readiness by supporting all types of tank training, from initial gunnery training and live fire practice, to advanced force-on-force exercises in CTC environments.

Sophisticated gunner feedback

The tank trainer utilizes precision laser simulation with true replication of actual projectile ballistics and target effects. The projectile trajectory is presented in the gunner and commander's sights through tracers, bursts and obscuration simulation, permitting fire observation and fire correction. Realistic sounds – from the breech closing to firing a round – are provided either from the intercom system or a speaker. Realism and crew inclusion is further enhanced by comparing the loaded ammunition with the selected weaponry, where mismatches are visualized in the sight with tracer simulation. All performance is monitored and recorded for later analysis.

Unlimited training opportunities

The accuracy in laser simulation and the features of the system allow instructors to evaluate tank crew performance both in gunnery training and in tactical field training. Video recording of sights and crew, and monitoring of radio and intercom communications assist instructors in making qualitative evaluations of crew performance. The tank trainer can also be used in live fire exercises, recording crew performance, drills, voice communications and sight views.



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Instructor Tools

Instructors play an essential role in all training. The instructor tools give them the capabilities to provide objective and timely feedback, both on the individual and collective levels. Instructors can plan, prepare, execute and evaluate gunnery training. Cost-efficient performance improvement and a positive learning curve reduce time to mission readiness. The crew is evaluated and given training feedback relevant to the specified training objective. Feedback can be given both in real-time and as an After Action Review (AAR). The tools use event

information such as engagement times, aiming coordinates, aiming procedures, hit information, etc., and present the data as statistical reports, qualification results, etc. On-screen presentations can be interactive using sequences for playback. Hand-outs are easily compiled for distribution at the conclusion of a training session. With the real-time feature, several tanks can be monitored and instructed simultaneously by one instructor.

Modern, proven and in use

More than 7,000 vehicle systems have been adapted and delivered to over 100 different applications. Twenty-eight different tank configurations use our system in training. Taking advantage of the latest technology in a proven product allows international customers to refine and optimize tank crew training, both on the individual and unit levels, reducing time to mission readiness.



KEY FACTS

Capabilities	• = Standard	O = Optional
Fully integrated into tank		•
Requires correct weapon handling procedures (no negative training)		•
Laser range finder capability		•
Allows training in all tank operational modes including "emergency mode"		•
Ballistic simulation (i.e. correct time of flight, lead angle and elevation)		•
Instant gunnery feedback (i.e. text menus, real sounds and audio feedback in English (native language option))		•
Ammunition management system (ammunition configuration and quantities in hull and turret)		•
Anti-cheat functionality		•
Correct and true target separation (only one target can be hit by a round, with the exception of area effects against infantry)		•
Unconditionally Class 1 laser eyesafe IEC 60825-1 with amendments A1:1997 and A2:2001 with full performance within effective weapon ranges		•
Vulnerability to other weapons systems		•
Fire observation and accurate fire correction capability (optical, thermal and image)		O
Multimedia recording: Sight and crew video, radio and intercom recording		O
Crew association (detects and associates players inside the tank, players must be "live")		O
Correct ammunition loading system when a loader is part of the crew (not automatic loading)		O
Dug-in and micro-terrain protection (wireless hull down detectors)		O
Advanced vulnerability tables allowing fire control system degradation, radio disabling etc.		O
Pyrotechnical fire and hit indication		O
Instructor tool for advanced evaluation		O
Real-time monitoring and control		O

Specification subject to change without notice