'Force-on-Force' exercises in operational environment are a most realistic form of mission oriented training for Mechanised Forces. Zen ACTS™ is a holistic laser-based live training system. It facilitates realistic crew training and enables commanders to validate their plans and combat effectiveness of their command. Zen ACTS™ is scalable for any force level and configurable to MBTs and AFVs world over.

It Integrates with Zen Tactical Engagement Simulator (TacSim®) for an all arms combat training environment.

**Key Features:**

- Real-time tank versus tank battle in a risk-free environment with automated objective assessment
- User friendly system, which can be retro-fitted and requires no modifications on the host platform.
- Audio-visual alarm to indicate impact of hit and operational status of target AFV corresponding extent of damage (K-Kill and M-Kill) as per location of hit
- Standard drills and existing tank controls retained to maintain realism
- Provision to depict virtual minefields and artillery fire
- Automated recording, reports, analysis and comprehensive After Action Review (AAR)
- Measures & quantifies individuals and teams
- Augmented reality based in-sights display of fire effects
- Compatible with both OSAG II & MILES Standard

**Live Simulation**

www.zentchnologies.com
Zen ACTS facilitates two-sided training in field craft, battle drills and tactical and gunnery procedures at Combat Team level. The system exploits superior technology and high fidelity simulation to achieve realism and objectivity in training. Commanders are provided an Exercise Control station (ExCon) to setup, conduct, monitor, control and evaluate the training.

**System Operation Modules:**

**LASER Unit (LU)**
- Simulates fire effects and finds target range
- Uses eye-safe laser to precisely simulate tank fire

**Sensor Units (SU)**
- Detects the pulse coded laser from the LU
- 360° detection capability with an accuracy of ±30cm
- Audio visual alarm to indicate impact of hit and damage

**Exercise Control (Excon)**
- Facilitates planning and conduct of tactical exercises
- Monitors, controls and records the conduct of exercise
- Manoeuvres displayed in near real time on 2D Map with an option of 3D display

**Umpire Gun (UG)**
- Associates various elements of ACTS to a tank and controls participant’s status in an exercise in real time

**Other Subsystems**
- **Base Station (BS)**: It is an electronics hub and centre for wireless communication
- **Interface Unit (IU)**: Monitors sub-system and gunner’s actions
- **Hull Down Sensor**: Identifies the hit on the tank in hull down position
- **Hull Position Sensor**: States the direction of hull of the tank
- **Pyro Unit**: Pyrotechnic smoke equipment