CYBERSECURITY TRAINER

Redefine Learning for Cyber Defenders
In pursuit of a more secure work environment, the cyber security trainer is a versatile simulation and evaluation platform that provides hands-on, scenario-based learning experiences for cyber practitioners. Integrating live systems, virtualised platforms and modelled software virtual entities, the trainer offers a safe synthetic environment for individual or team training involving Red-Blue Wargaming.

The All-In-The-Rack solution allows for rapid start-up, ease of transportation and storage.

**KEY FEATURES**

**Software Virtual Network (SVN)**

The SVN has the capability of modelling both wired and wireless networks to support a wide range of scenarios such as those involving Enterprise and Tactical Communication Networks.

- Facilitate training and evaluate the adequacy of the organisation’s cyber security measures
- Impact analysis of system performance through introduction of new measures or security protocols
- Supports Hardware-in-the-Loop (HWIL); allows endpoint hardware evaluation through integration of real-life devices
- Pre-loaded with a set of scenarios for easy deployment. Instructors can also design and create scenarios based on training syllabus

**SVN Enviroment with HWIL**
Cyber Library

The Cyber Library offers a suite of cyber threat models for simulation of various cyber-attack scenarios. Live applications or customised tools can also be used to expand the range of cyber threats for training exercises, to create a realistic, safe and controlled operational environment.

Training Management System

The Training Management System is equipped with an After-Action-Review (AAR) capability where instructors are able to monitor, record and review trainees’ exercises for evaluation purposes.

Library Management
- Manage pre-configured network topology and list of live-devices
- Script pre-configured simulated cyber attacks
- Import lesson plans into system database

Exercise Control
- Run/Pause/Stop the exercise
- Launch Scenario Player and ad-hoc simulated cyber attacks
- Instant messaging function allows two-way communication between the instructor and trainees

Trainee Management

Exercise Management
- Configure the positions of live devices that will be mapped onto the network configuration
- Select the available pre-configured simulated cyber attacks
- Assign roles to trainees

Performance Evaluation
- Capture trainees’ inputs
- Playback trainees’ actions in a timeline

HIGHLIGHTS
- Full spectrum capabilities encompassing network modelling (wired and wireless), test & evaluation and operational training
- Realistic training in a high fidelity and safe synthetic environment
- Networked capability offers team-based training experience