



# Virtual Maintenance Trainer **STRYKER**

Stryker Armored Fighting Vehicle Diagnostic and Troubleshooting Trainer (DTT)



The Stryker Diagnostic and Troubleshooting Trainer (DTT) is a virtual training system that utilizes 3-D graphics on monitor displays to train field-level maintenance training and troubleshooting for the Stryker Variants, including the Infantry Carrier Vehicle (ICV), Anti-Tank Guided Missile Vehicle (ATGM), and Mortar Carrier Vehicle (MC).

The Stryker Double-V Hull A1 (DVHA1) lessons are included and train four (4) key vehicle technologies:

- Mechanical
- Chassis
- Electrical
- In-Vehicle Network

Navigation and interaction with the trainer occur through a keyboard, mouse, and other peripheral devices.

The Stryker DTT facilitates skill level development training covering Stryker system operation; familiarization; symptom verification; troubleshooting; fault isolation; adjustment; inspecting; servicing; maintaining; repairing; replacement; adjusting; and testing of the Stryker (FB/DVH A1). The DTT's cover variants, subsystems, and components, as well as removal and replacement of selected Line Replaceable Units (LRUs) and bring the existing trainers compliant with the new Interactive Electronic Technical Manual (IETM).

Additionally, DiSTI is supporting the integration of Hands-On-Trainers (HOTS) and Part-Task Trainers (PTTs) into the Common Core baseline.

The Stryker trainers are designed facilitate skill-level development training for 91S Military Occupational Specialty (MOS) Maintenance Technicians.



DiSTI developed over 100 new lessons, including interactive schematics and Interactive Electronic Technical Manuals (IETMs) covering major components, including:

- Troubleshooting
- Fault isolation
- Adjustment
- Inspecting
- Servicing
- Maintaining
- Repairing
- Replacement
- Testing
- Power Pack
- Engine
- Transmission
- Winch Assembly
- Power Module
- Pneumatic System
- Climate Control
- Lighting System
- Fuel System
- Exhaust System
- Power Module
- Driveline
- Suspension
- Seating Assemblies
- Doors, Hatches and Grilles
- Cooling Module
- Central Tire Inflation System
- Pneumatic Brake System
- Steering System
- Electrical System
- Suspension
- Height Management System
- Video Display
- Automatic Fire Extinguisher System
- Covers, Guards, and Access Panels
- Annunciator Unit (AU)
- Height Management Unit (HMU)
- Elect. Term. (VDET)
- Software Loader/Verifier (SLV)
- Enhanced Power Distribution Unit (EPDU)
- Driver's SA Display (DSAD)
- Commander's SA Display (CSAD)
- Monitoring and Warning Devices
- Auxiliary Power Unit
- Power Pack Interface (PPI)
- Diagnostic Signal Acq. Unit (DSAU)
- Gauge Cluster Unit (GCU)

The Stryker DTT hardware, software, and lesson design provide a virtual environment to incorporate simulated components, tools, cables, connectors, and mounting hardware that accurately reflects the vehicle and functionality.

The DTT trainer functions in four training modes:

- Practice Mode (Freeplay)
- Individual Tutorial Mode (Student Guided)
- Class Tutorial Mode (Instructor Guided)
- Scored Mode (Testing)

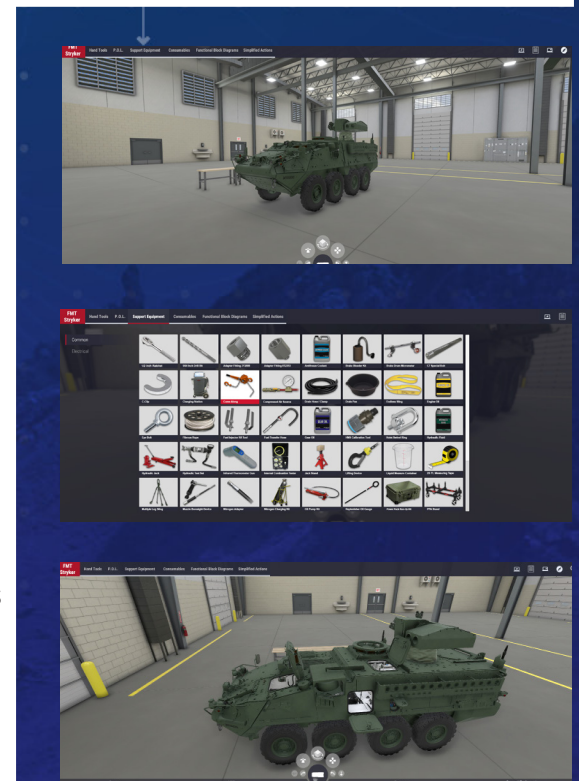
The Stryker DTT training system includes the following:

- Instructor/Operator Station (IOS)
- Remote IOS (RIOS)
- Training Management System (TMS)
- Student Work Stations (SWS)
- Network-attached Storage (NAS)
- Large-screen wireless smart touch displays

The instructor can control and monitor all student workstations in a classroom simultaneously or individually.

Training can be delivered via:

- Desktop classroom
- Portable laptop
- Secure cloud



## About The DiSTI Corporation

When training is mission-critical DiSTI's virtual training is the solution to reduce costs and increase operational efficiency. For over 25 years, DiSTI has been the global authority trusted by Defense companies to build scalable training applications to increase student efficiency and throughput.

Our diverse portfolio includes the U.S. Army, U.S. Air Force, U.S. Navy, U.S. Marine Corps, Air National Guard, along with worldwide array of foreign military partners, organizations and agencies who rely on DiSTI's expertise for the development of their training solutions.