# Virtual Maintenance Trainer
# HIMARS

**High Mobility Artillery Rocket System Diagnostic and Troubleshooting Trainer**

The High Mobility Artillery Rocket System (HIMARS) Diagnostic Troubleshooting Trainer (DTT) is a virtual training system that utilizes 3-D graphics represented on two different display types in both Classroom and Laboratory environments to train Depot Level maintenance to the following Military Occupational Specialities (MOS):

- 94P Maintainer
- 948D Warrant Officer
- 94A Officer

Navigation and interaction with the trainer occurs primarily through a mouse in the classroom on desktop and via touch on wheeled, large 4K resolution, 55" displays in a Lab.

The HIMARS DTT facilitates familiarization; symptom verification; troubleshooting; fault isolation; adjustment; inspection; servicing; maintaining; repairing; replacement, and other functions. The HIMARS trainee initially learns in a classroom environment and then progresses to the Laboratory, which more effectively simulates working on a full-size vehicle.

Once students progress to working on the actual vehicles, the large, rolling Lab Displays can be relocated nearby to provide further reference/tutoring on the more challenging procedures.

The HIMARS DTT currently covers 240 Lessons, broken down into Primary, Secondary, and Simplified Actions, and includes procedures to verify 55 different faults before initiating diagnostics and repairs.

Several combined MLRS (Multiple Launch Rocket System) and HIMARS Classrooms and Laboratories have been successfully delivered to US Army at Ft. Lee, VA.

The HIMARS DTT utilizes standard Interactive Electronic Training Manuals (IETMs) for reference, which it can project onto a secondary display in both the Classroom and Laboratory. Covered lessons predominantly focus on the mechanical, electrical, and hydraulic subsystems associated with the launch hardware and its FCS (Fire Control System).

The HIMARS 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 three training modes:
- Practice Mode (Freeplay)
- Individual Tutorial Mode (Student Guided)
- Scored Mode (Testing)

The HIMARS DTT training systems typically include the following:

Classroom
- One Instructor Station
- Twelve Student Stations (desks) with one Ultra-Wide monitor for the Virtual Environment, and a smaller, secondary monitor for the Training Materials and IETM.
- Network-attached Storage (NAS)

Laboratory
- One Instructor Station
- Twelve Student Stations with heavy-duty rolling carts, including one 55" 4K touchscreen, and a smaller, secondary monitor for the Training Materials and IETM.
- Network-attached Storage (NAS)

## 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.