The CMT is designed to train system familiarization, Maintenance Operational Checks (MOCs), Fault Isolation Procedure's (FIPs) and Remove/Install tasks in support of AN/AAR-57 (V)5 AVUM (Aviation Unit Maintenance). The training device allows the student to test and trouble shoot the entire system including the simulated flare loads in the launcher.

The trainer provides realistic, high fidelity and safe training for ground maintenance operations and procedures. The CMT serves as the primary selected hands-on training media used by instructors to strengthen maintenance personnel’s skills and knowledge in the following areas:

- Acquisition of task related skills and knowledge
- Overall familiarity with the system components
- Maintenance practices and procedures
- Advanced skills development
- Training environment flexibility to provide high life-cycle task performance at low cost
- Use of Test, Measurement and Diagnostic Equipment (TMDE)
This fully digitized maintenance trainer incorporates an Instructor Operator Station (IOS) that allows the instructor to impose up to 36 different faults and to monitor a student’s maintenance actions in response to imposed equipment faults.

The Student training station includes the following devices related to the Counter Measure Systems:

- Electro-Optic Missile Sensor (EOMS)
- Payload Modules
- Dispensers
- Electronic Control Unit (ECU)
- Safety Switch
- Copilot and Pilot Cyclic Grip Assemblies
- Electrical Power Panel / Junction Box
- DCDU
- Misc Control Panel
- AN/APR-39A Control Panel
- Remote Bypass Switch Panel
- No.1 EAPS Circuit Breaker Panel
- AN/APR-39A Indicator
- Flare and Chaff Dispense Switches
- Sequencer
- Counter Measures Dispenser Test Set (CDTS)

The CMT is designed to replicate the AN/AAR-57 (V)5 for the Chinook CH-47D platform configuration to house and stimulate or simulate all components, wiring harnesses, and assemblies necessary to provide realistic training.

The trainer system software consists of real and non-real-time computer software configuration items necessary to simulate/stimulate system equipment, systems, and subsystems operation to allow the CMT to meet functional fidelity and training task requirements specified for the trainer. The Instructor/Operator Station (IOS) software consists of real-time and non-real-time computer software configuration items required to provide a graphical menu system for the Instructor/Operator.

The IOS provides two modes, one for training and one for maintenance. The menu system allows both the Instructor and the Maintainer access to the trainer system. The Instructor can run the automatic Daily Operational Readiness Test (DORT), monitor and control the training scenario, and observe and evaluate student performance. The Maintainer can run the DORT in automatic mode and manual mode to troubleshoot and repair the trainer.

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