

## UH-60M BLACK HAWK Aviation Basic Electronics Trainer (ABET)

The ABET replaces the AH-1 COBRA Electronics Trainer used at USAALS, with a modernized UH-60 hardware trainer that provides a platform for development of maintenance skills for Military Occupational Specialty (MOS) 15F10 electrical maintainers.

The trainer is used for system familiarization, component identification, servicing, Maintenance Operational Checks (MOCs), Fault Isolation Procedures (FIPs), and troubleshooting in support of basic electronics maintenance training.

The Aircraft Wiring System Trainer (AWST) interfaces all of the electronics hardware in the student station. The system is similar to the actual wiring in the aircraft for training purposes. All connectors are those used in the aircraft. All cable runs are identified with cable tags that replicate the tags used in the aircraft.

The Student Station (SS) and Instructor Operator Station (IOS) create the complete trainer environment.

The Student Station includes:



- Nose Section
- Cockpit Section
- Cabin Section
- Tail Cone Section
- Tail Rotor Section

The Instructor Operator Station (IOS) allows the instructor to monitor and control the training scenario, insert system faults, and check system status. The IOS consists of the hardware and software, and interfaces the student station through cable connections. The IOS provides a graphical menu system for Instructor/Operator interaction. The IOS also allows the instructor to interact with Trainer system menus.

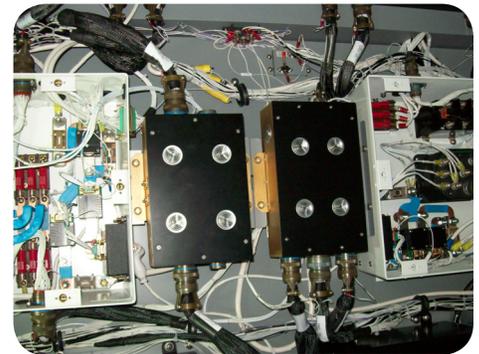
The trainer simulates aircraft electrical systems and serves as the primary selected training media used by instructors to strengthen maintenance personnel skills and knowledge in the following areas:

- **Acquisition of task related skills and knowledge**
- **Overall familiarity with aircraft component location**
- **Select troubleshooting and maintenance practices and procedures**
- **Isolation of task environments for system familiarization to support MOS training**
- **Use of Test, Measurement and Diagnostic Equipment (TMDE)**

Along with the trainer, Kratos' Logistics division delivered Reliability, Maintainability and Availability Management Information, two volumes of System Maintenance Manuals, Instructor Utilization Handbook (IUH), COTS Manuals and Training Materials.

Comments from personnel at USAALS indicated that they are very pleased with the ABETs in their similarity to the Black Hawk aircraft for the training tasks - both physically and functionally.

The Basic Electronic Trainers provide a hands-on, realistic environment for familiarization with theory, operation, adjustment and troubleshooting of helicopter electrical systems. The trainers also feature hands-on operational checks, electrical system analysis, maintenance and repair, and troubleshooting of various faults - selected by the Instructor - to be performed by students.



**KRATOS**  
FROM STRENGTH TO SUCCESS