CH-47F
Chinook Avionics Trainer

Providing high fidelity hands-on training of avionics for technicians in all units while also training intermediate level maintenance tasks.

Kratos Defense & Security Solutions Inc is a trusted choice for CH-47F Chinook Avionics devices designed specifically to support heavy lift helicopter maintenance training by the US Army's 128th Aviation Brigade in Fort Eustis, VA and International operators of the Chinook.

The CH-47F Chinook Avionics Trainer (CAT) is a High Fidelity Hands On Training System (HOTS) that provides Full task training through simulation of all avionics systems in fully integrated configuration within a fully immersive physical environment. The CAT replicates the aircraft interior and exterior spaces with a simulation of all Line Replaceable Units (LRU) necessary to support the US Military 15N10 Avionics and International Part 66 Mechanics programs of instruction. The CAT enhances theoretical training and enables practical and on job training of specific tasks such as:

- **Fault Isolation Procedures (FIPs)**
- **Remove and Install (R/I) Tasks**
- **System and Subsystem Familiarization**
- **Servicing Tasks and Inspections**
- **Maintenance Operational Checks (MOCs)**
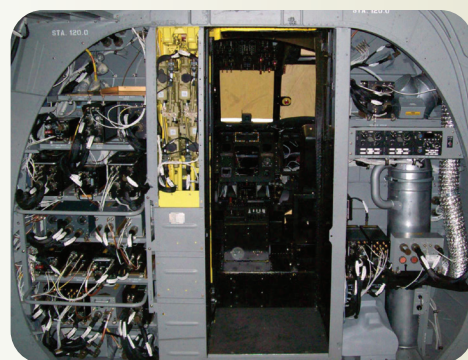- **Component Identification**

The CAT also provides high fidelity training in an integrated avionics platform. This provides features required for unit and intermediate avionics maintenance tasks such as:

- Simulation of 30 Avionics Subsystems with 231 Available Faults in Cables, LRU's and Sensors

- Test, Measurement, Diagnostic Equipment and Peculiar Ground Support Equipment PGSE).

- CH-47F Common Aviation Architecture System (CAAS) cockpit.

- AFCS command and Manual Articulation of controls, controls linkage and control Servos.

- Stand alone Instructor Operator Station for exercise control, fault insertion and event logging

- The trainer unique computer system and power supplies are mounted in a separate cabinet beside the trainer.

- Functional simulation and physical replications using trainer unique LRU's and components.

Typical training tasks include trouble shooting, isolation of faults and restoration of functionality for the following systems:

- CH-47F Unique Systems and Equipment

- Data Networks (MIL-STD-1553B Data bus, Ethernet, ARINC 429, SMTPE 292 Video, Serial/discrete/Analog)

- CDU-7000

- Multifunction Display (MFD), MFD-268C3

- General Purpose Processor Unit (GPPU), GPPU-8600

- Data Concentrator Unit (DCU)

- Emergency/Auxiliary Control Panel (EACP), EACP 253M-4A

- Data Loader Unit DR-200 or DTU-7100

- Electronic Standby Instrument System (ESIS)

- Heads-Up Display (HUD), CV-4339(V)/AVS-7(V)

- Cockpit Voice Recorder / Flight Data Recorder (CVR/FDR)

- Embedded Global Positioning System (GPS)/Inertial Navigation Unit (INU) (EGI), CN-1689-H-764GU

- Very High Frequency Omni-Ranging (VOR) Instrument Landing System (ILS) and Marker Beacon(MB), AN/ARN-147(V)

- Automatic Direction Finder (ADF), AN/ARN-149(V)1

- Tactical Airborne Navigation (TACAN), AN/ARN-153(V)

- Radar Altimeter, APN-209G

- Stormscope, WX-500

- Digital Map System

- Digital Intercommunications System (DICS)

- Identification Friend or Foe (IFF) Transponder, AN/APX-118 or AN/APX-123

- FM SINCGARS Radio, AN/ARC-201D(V)

- FM/VHF/UHF Radio, AN/ARC-231 SATCOM

- UHF/AM HAVEQUICK II Radio, AN/ARC-164(V)

- High Frequency (HF) Radio, AN/ARC-220(V)2

- Improved Data Modem (IDM), MD-1359/A

- Blue Force Tracking (BFT) System

- Radar Warning System, AN/APR-39A(V)

- Common Missile Warning System (CMWS), AAR-57/ALQ-212

- Improved Countermeasures Dispenser (ICMD), D-61/ALQ-212

- Digital Automatic Flight Control System (DAFCS)

- Air Data Systems

- Laser Detecting Set AN/AVR-2

- AN/ARC-231 SATCOM Radio

- Suite of Avionics Test Sets

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