



SIMULATION - TRAINING
systems integration

CH-47F CHINOOK AVIONICS TRAINER



DEI Services Corporation was selected by the Program Managers Office, Cargo Helicopters to provide six new CH-47F Chinook Avionics Trainer (CAT) devices to support the US Army's new, heavy-lift helicopter, CH-47F Chinook Helicopter featuring a newly designed, modernized airframe, a Digital Advanced Flight Control System and is the first aircraft in the Army's Aviation Modernization Plan to have the Common Avionics Architecture System advanced digital cockpit. One prototype and five production CH-47F CAT devices will be delivered to the US Army Aviation Logistics School, Fort Eustis, VA. CH-47F maintenance instructors and their students will train system familiarization, component identification, servicing tasks and inspection, maintenance operational checks, fault isolation procedures and remove/install tasks in support of unit and intermediate level maintenance. The CH-47F CATs will provide realistic, high fidelity and safe training for ground maintenance operations and procedures.

Each CH-47F CAT device consists of a Student Station and Instructor Operator's Station. The student station consists of a high fidelity full size cockpit and cabin area that is mounted on a wheeled platform for ease of placement. The CH-47F glass cockpit contains a simulation of the Army's Common Aviation Architecture System (CAAS). This makes the cockpit of the Chinook fully compliant with digital battlefield requirements and allows for greater and easier growth in systems. The cabin contains all of the Line Replaceable Units (LRU) necessary to support the avionics maintenance tasks for the systems listed below. The trainer unique computer system and power supplies are mounted under the floor. The Instructor Station consists of a podium style station containing the computer equipment; keyboard, mouse and monitors; that are necessary for the instructor to conduct training.

The CH-47F CAT supports all the critical tasks necessary to train MOS (Military Occupational Specialty 15N10/30 Avionics Mechanics. Typical 15N 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 Databus, 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
- 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
- /FM SINCGARS Radio, AN/ARC-201D(V)
- VHF/AM-FM Radio, AN/ARC-186(V)
- UHF/AM HAVEQUICK II Radio, AN/ARC-164(V)
- High Frequency (HF) Radio, AN/ARC-220(V)2
- 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)



7213 Sandscove Court
Suite One
Winter Park, FL 32792
Phone: (407) 678-3388
Fax: (407) 678-8008
Email: info@deicorp.net
www.deicorp.net

For more information on how our CH-47 CHINOOK expertise can enhance your preparedness, please contact us.