

Boeing Delivers Training Results

Boeing provides a full range of training, mission planning and rehearsal solutions for both domestic and international customers. We have over 30 years of experience in the delivery of aircrew and maintenance training devices, training centers and training services, including instructors, courseware and logistics support. Boeing's leadership in networking and large-scale system integration puts us at the forefront of defining, developing and deploying distributed, collective, joint and coalition training solutions for customers worldwide. Our fixed-wing and rotorcraft training programs include:

- CH-47D Maintenance Trainer
- International Apache Training Systems
- UK Apache AH Mk1 Training System
- F-15 C/E Training Systems
- F-15 C/E, F-16 Mission Training Center
- F/A-18 Training System
- T-38 Training System
- C-17 Training System
- F-16C Trainers
- US Army Apache Longbow Training
- Commercial Apache Longbow Training System
- F/A-18, Apache Longbow, and MV-22 Instructional Media
- USAF AETC & ACC Pilot Training Instruction
- F/A-18 Aircrew and Maintenance Instruction
- US Navy EA-6B Integrated Avionics Trainer
- MV-22 and CV-22 Training Systems
- F-22 Training System
- T-45 Undergraduate Military Flight Officer training



Increasing Readiness through Enhanced Training Solutions

Boeing helps prepare warfighters for their missions by providing realistic, reliable and affordable training. We leverage our expertise and resources to deliver the most advanced training available, producing world-class warfighters who are fully-prepared for the complexities of modern warfare.

Our training solutions help ensure that warfighters have the skills, knowledge and information needed to optimize their use of the most advanced weapon systems available today.

We develop leading-edge technologies and deliver training solutions that deliver unprecedented realism.

BOEING OFFERS MODULAR,
CUSTOM SOFTWARE AND
HARDWARE SOLUTIONS

For more information, contact:

Dennis P. Hoffmann
Business Development
Phone: +001 314 232 0873
Fax: +001 314 777 1564
Cell: +001 314 705 1866
Email: dennis.p.hoffmann@boeing.com

Eric Bergantz
Business Development
Phone: +001 314 777 6440
Fax: +001 314 777 1564
Cell: +001 314 494 6943
Email: eric.bergantz@boeing.com

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The Boeing Company
P.O. Box 526 MG 288-5840
St. Louis, MO 63166-0516
www.boeing.com
184218



CH-47F INTEGRATED TRAINING SYSTEM CHINOOK READINESS BEGINS WITH TRAINING AIRCREW · MAINTENANCE



A Full Range of Chinook Training Solutions

Boeing designs, builds and integrates Chinook training devices and software tailored specifically to the needs of each customer. Through customer

INTEGRATED TRAINING SOLUTIONS
THAT FIT EASILY INTO CUSTOMERS'
EXISTING INFRASTRUCTURE

Realistic, Reliable and Affordable Solutions

Boeing provides the expertise and resources to ensure warfighters develop the skills and knowledge to fully leverage the CH-47F platform.

As the Original Equipment Manufacturer of the Chinook, we possess the technical

partnerships, we provide training that is essential to building and maintaining rotorcraft readiness. We analyze the customer's current environment with the goal of filling training gaps with capabilities.

specifications for one of the most advanced rotorcraft available in the world. This in-depth knowledge gives Boeing a unique insight into how the aircraft's avionics, propulsion and weapons systems work together, helping us to develop the most reliable and cost-effective training solutions available.

REALISTIC, COST-EFFECTIVE TRAINING
THAT PRODUCES WORLD-CLASS WARFIGHTERS
FULLY PREPARED TO MEET THE COMPLEXITIES
OF THE MODERN BATTLEFIELD



Nose-to-Tail Training for the Chinook

We make it easy for Chinook customers to develop a complete and fully-integrated training system. We work with our customers to determine the fidelity and type of training they need both now and into the future. Then we develop an authentic and cost-effective training solution within customers' training budget.

Chinook Operator and Maintainer Training Courses

Boeing provides in-depth training for CH-47 Pilots, Crewmembers, Mechanics, and Technicians including:

- Theory
- Operation
- Fault isolation
- Troubleshooting
- Maintenance

As the OEM, we provide low-cost training courses and up-to-date technical information that fits customer-specific needs, providing just-in-time training that is second to none.

CH-47 Chinook Maintenance Training Devices

Airframe Systems Trainer (AST)

The CH-47 AST is a high-fidelity aircraft fuselage section. It includes a crew station that provides real-time action/reaction conditions, and an Instructor Operator Station that allows performance monitoring, fault insertion, and other interaction with students. Students are trained on:

- Hydraulics
- Flight controls
- Electrical systems
- Pneudraulics
- Fire Suppression System

Avionics Maintenance Trainer (AMT)

The CH-47 AMT is a high-fidelity crew station where avionics systems are simulated with interactive crew station controls allowing users to confirm normal and abnormal avionics system performance. It includes a crew station that provides real-time action/reaction conditions, and an Instructor Operator Station that allows performance monitoring, fault insertion, and other interaction with students.

A dual display Interactive Display System (IDS) allows users to interact with aircraft areas not physically present, within a highly interactive and virtual environment. Students are trained on:

- Avionics operation and maintenance
- Fault isolation procedures
- Remove-and-replace tasks
- Antenna connections

Propulsion Systems Trainer (PST)

The PST is a high-fidelity, full-scale, replication of the Chinook aft fuselage and pylon structure. It includes a crew station that provides real-time action/reaction conditions, and an Instructor Operator Station that allows performance monitoring, fault insertion, and other interaction with students.

A dual display Interactive Display System (IDS) allows users to interact with aircraft areas not physically present, within a highly interactive and virtual environment. Students are trained on:

- Engine and APU maintenance tasks
- Remove-and-replace tasks
- Subsystem component removal while the primary assembly is still installed on the aircraft



MODULAR, CUSTOM SOFTWARE AND HARDWARE SOLUTIONS

CH-47 Chinook Aircrew Training Devices

Full Mission Simulator (FMS)

The FMS is a full-scale, spatially correct, cockpit crew station containing all cockpit controls, displays, and indicators. Networking allows the FMS to participate in collective mission environments with external domains to increase the proficiency of aircrew training. Pilot and copilot are trained on:

- Basic aircraft operation
- Tactics
- Crew coordination
- Emergency procedures

Aircrew Cabin Trainer (ACT)

The ACT is a high-fidelity aircrew training device that supports Flight Engineer and gunnery training in either a stand-alone or networked environment. An on-board Instructor Operator Station provides system performance monitoring, malfunction insertion, and mission scoring during gunnery tasks. Students are trained on:

- Mission scenarios (Can be configured as a complete virtual aircraft)
- Procedural exercises

Aircrew Procedural Trainer (APT)

The APT is a high-fidelity aircrew training device that supports Flight Engineer, Load Master and Crew Chief training. The APT replicates the rear cabin section. Malfunction insertion from an external Instructor Operator Station allows presentation of abnormal system performance from the hoist, guns, hydraulics, electrics, and ramp. Students are trained on:

- Tactics and procedures
- External Loads
- Hook-up
- Specific ramp operations and lift capability to support Alternate Insertion/Extraction equipment training

