UNMANNED AIRCRAFT SYSTEMS TRAINING

TOTAL TRAINING

Today's students are proficient in technology and they expect individualized information for their specific needs. Such students prefer an immersive "learn-by-doing" approach. L-3 Link's RITE-Train® training approach enables advanced learning by using the latest technology to tap into these student preferences.

The RITE-Train approach revolutionizes the:

- Entire training environment (including the structure and content of the curriculum)
- Immersive media that delivers realistic training scenarios
- Measurement of student performance and the time each student spends in the training environment

L-3 Link's Total Training Solution includes all content and material for advanced and efficient training delivery, required technology and personnel for training operations, and the strength and global presence for ongoing training support.

BENEFITS OF L-3 TOTAL TRAINING

Lower cost • **I**mproved retention • **I**mproved efficiency • **A**utomated training

L-3 Link Simulation & Training

P.O. Box 5328

Arlington, Texas 76005

Tel: 817.619.2000

Fax: 817.619.3777

www.link.com

UNMANNED AIRCRAFT SYSTEMS TRAINING

Unmanned Aircraft Systems (UAS) training demands a total training solution in which operators can learn to fly their aircraft and weapon system in difficult environments and perform to the highest standards.

Achieving these standards effectively and efficiently requires a training and synthetic environment continuum that matches the expected operational performance of the aircraft and goes beyond accurate replication of aircraft maneuverability, avionics, weapons and sensors.

By allocating the right training media (tablet, part-task or full-mission trainer) and supporting that training media – through high-fidelity simulation and a synthetic natural environment – L-3 Link offers the RITE-Train® training solution as the means to master aircraft operation, quickly and economically, in conditions that reflect the real-world challenges faced by every operator.

From classroom computer-assisted instruction through part-task and full-mission training, commonality is crucial to a useful total training solution. This can be accomplished through a single simulation of the aircraft and environment, resulting in faster learning, higher retention for the operator and training repeatability for the instructor.

Since 1929, L-3 Link has provided customers total training solutions employing open and modular training system architectures that meet training objectives by supporting aircraft concurrency, training task achievement, mission evolution and future technology growth.

LINK SIMULATION & TRAINING

SCALABLE RELIABLE HIGH-FIDELITY
OVER 8 DECADES OF EXPERIENCE
IMMERSIVE MISSIONS NETWORKED
REALISTIC AIRCRAFT & WORLD

TRAINING MISSIONS

Specific Mission Training • **O**bservation • **D**irect Fire Support • **R**econnaissance • **S**urveillance • **I**ndividual Brigade Support • **H**igh-Altitude Long Endurance (HALE) • **M**edium-Altitude Long Endurance (MALE)

EXCEEDING UAS TRAINING REQUIREMENTS

L-3 Link delivered the first high-fidelity UAS training system to the USAF in 2006. Training capability catapulted forward, introducing leading-edge technologies and leveraging other state-of-the-art training innovations. Today, complex, dynamic environments provide the ability to create realistic mission scenarios that prepare aircrews and operators.

L-3 Link provides a comprehensive family of UAS training devices to full-system training centers. The training centers produce mission-ready aircrews and operators through classroom instruction, immersive computer-based training and high-fidelity simulation.

UNMANNED AIRCRAFT SYSTEMS TRAINING

INSTRUCTOR AND BRIEFING/DEBRIEFING CAPABILITIES

The Instructor Operator Station (IOS) is a PC-based, network-connected component of the training system, controlling multiple devices in a distributed training environment designed for efficient and effective training scenario execution. It provides the capability to initialize, support, control and monitor all aspects of a training exercise. When combined with a scalable video wall consisting of displays, the IOS provides a state-of-the-art mission observation facility. The video wall (a scalable debrief system) comprises multiple wall-mounted flat screen color displays and interactive whiteboard technology.

These displays provide a crew station display repeater function, an overhead eye view of the mission replay over associated tactical maps or geographic terrain representations, and a variety of images, including a stealth viewer, an event timeline, 3-D or 2-D displays, and a pair of data displays that fully supports multi-ship tactical debriefing.

GROUND CONTROL STATION

The level of realism between simulated exercises and real-world operations is transparent for the student. Use of OEM production pilot and sensor operator station hardware ensures all training exercises have a realistic look and feel. As a result, pilots and sensor operators easily transition into the live aircraft ground control station (GCS).

MAINTENANCE TRAINING

L-3 Link's Maintenance Trainer Family (MTF) products provide training and development to the maintenance team and technicians. With a variety of tools to work with, students are able to undertake physical, hands-on learning supported by virtual courseware and instruction for constant real-time training on demand. Robust, high-fidelity physical and virtual environments build the maintenance and technician teams' competence in individual and team air vehicle support.

Our MTF supports the entire range of progressive learning and development, including avionics, electrical interface, fuselage, engine control, flight control, hydraulic and armament systems. The MTFs are air vehicle-specific, including weapon systems for fighter/attack platforms. These high-fidelity maintenance solutions can be applied to all air vehicles.

INTEGRATED ENVIRONMENT

L-3 Link's HD World® solution provides a realistic, high-fidelity synthetic environment simulation that immerses pilots and crews in high-definition, dynamic training scenarios. HD World supports day/night, low-altitude and all-weather mission training in addition to realistically simulating employment of a full range of weapons and sensors. HD World significantly enhances the operational environment being simulated by adding rich, physics-based dynamic behaviors representative of indigenous civilian and insurgent populations. By adding increased realism and clutter within a simulated urban environment, the warfighter's ability to acquire targets is hampered. Highly interactive physics-based vehicle models offer movement that is more realistic, consistent collision detection and results. Precision weapon effects with improved, more accurate battle damage assessment enhance training knowledge transfer. HD World allows game-based interactive role players to enter the simulation to perform in a variety of training scenarios.