

+Tempo

Effective maintenance training at the point of need



In 2021, CAE acquired L3Harris' Military Training business, which included Link Simulation & Training and Doss Aviation. These businesses are now integrated with CAE USA as part of CAE's Defense & Security business unit.

Overview

Mission success employing complex systems and equipment in today's dynamic operational environment relies heavily upon highly skilled maintenance technicians with the knowledge and skills to effectively maintain these assets. For years, the operations tempo has increased, resulting in the development of a gap between training schoolhouses and the field units they support. CAE has created an innovative solution that eliminates this gap by leveraging the latest technology for effective maintenance training at the point of need.

CAE offers a fully integrated aviation maintenance solution that provides the right fidelity for the right phase of training. Constructed with fully immersive and interactive 3D graphics, technicians have access to the advanced courseware, which includes the most current operational flight profile data and Interactive Electronic Tech Manuals (IETMS) data. CAE calls this solution the Immersive Maintenance Guide™ (IMG).

Maintenance schoolhouse

Primary Training Tool in Schoolhouse

From familiarization through advanced troubleshooting in physical or virtual classrooms. Pairs with interactive virtual and physical models to offer a complete learning experience.

Integrate with Training and Learning Management

Supports schoolhouse and course objectives by integrating the IMG into training management work flows. Increases throughput by reducing reliance on physical training devices.

Improve Student-to-Instructor Ratios

Instructor workload is alleviated, enabling increased student to instructor ratios and therefore increased throughput.

Student Performance Monitoring and Assessment

Students are monitored, tracked and evaluated with an adaptive learning engine.

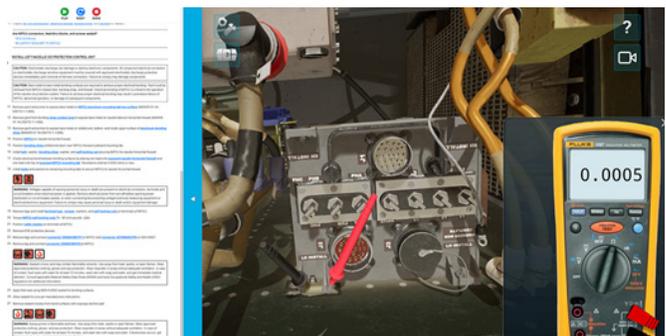
Full Virtual Reality Immersion

Platform has tailored interactions for virtual reality (VR) as opposed to desktop/touchscreen. This includes procedural navigation, 3D VR interaction and embedded student Learning Management System (LMS) interaction.

Immersive Tool for Recurrent Training

Pre-qualify, re-certify and train students remotely to reduce physical schoolhouse resident course length or move beyond current depth of training.

- Accelerate learning
- Improve student-to-instructor ratio
- Increase student throughput



Features and benefits

Intuitive interface

Cloud-based delivery via intuitive and easy-to-use software application.

Immersive and interactive virtual environment

The virtual environment is integrated with step-by-step procedural guidance, providing a highly realistic, interactive and immersive learning experience.

Cyber secure

Access requires two-factor authentication with a one-time key; RMF compliant.

Single point of entry

A single point of entry to all content and subscribed equipment in the schoolhouse or in the field.

User-specific content

The unique user login into the learning management system automatically provides user-specific information.

Performance assessment monitoring and remediation

A sophisticated rules-based engine provides continuous action monitoring and supports performance assessment and remediation.

Product concurrency

Cloud hosting supports a single point of maintenance and distribution, ensuring the training content remains in sync with the latest release of product software, manuals and other technical documentation.

Self-paced training

Crawl, Walk, Run integration.

- Crawl — Media and familiarization.
- Walk — Focus is on learning procedures.
- Run — Fault and troubleshooting integration.

Multi-language support

Quickly toggle from one language to another based on user needs and training requirements. IMG and Virtual Environment translate.



Field operations

Decision Support During Operations

Allows quick refresh of infrequent complex tasks including full task rehearsals and contextual troubleshooting.

Integrated with Technical Data and Reporting

Includes theory of operation, flow diagrams, schematics, drawings, manuals and other interactive media.

Expert Reach Back Support

Send and receive voice, video, media and telestration. Allows multiple levels of support to participate in a single field operation troubleshooting event.

Technician History and Performance

Track maintenance actions performed and use metrics by user to accurately characterize the workforce and skills.

Data Refresh and Concurrency

Updates to technical data are automatically pushed to each user. Updates are highlighted and tracked at the user level.

Object Recognition and Cueing

Mobile devices supported with object recognition to increase usability in the field. Highlight and identify selected components.

Automated Maintenance Logs

Automates maintenance paperwork and action logging reducing downtime for personnel and equipment.

Integrate with Logistics Systems

Supports integration with logistics management systems to check inventories or order needed parts.



- Available at the point of need
- Integrated with technical data
- On-demand decision support
- Maintain proficiency and reduce errors
- Augment maintainer knowledge

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