

Unified maintenance training solution

Train like you maintain and maintain like you train



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 hinges upon operators and maintenance technicians with the knowledge, skills and tools needed to effectively maintain complex fielded systems and equipment. For years, a gap has existed between training schoolhouses and the units they support since operational units often operate differently than how students train doctrinally. CAE has designed a solution that eliminates this gap and enables soldiers to "train like they maintain and maintain like they train."

CAE designed a fully integrated aviation maintenance solution that unifies aviation training and field operations support by bringing technical manuals to life and integrating fully immersive and interactive 3-D graphics alongside accredited technical data. CAE calls this innovation the Immersive Maintenance Guide™ (IMG).

Primary Training Tool in Schoolhouse

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

Integrate with Training and Learning Management

Support schoolhouse and course objectives by integrating the IMG into training management workflows to increase throughput by reducing reliance on physical training devices.

Improve Instructor-to-Student Ratios

Instructor workload is alleviated, increasing instructor- to-student ratios from 4:1 to up to 16:1. With performance monitoring and rules monitoring, schoolhouses can increase student throughput.

Student Performance Monitoring and Assessment

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

Immersive Tool for Recurrent Training

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



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.

Intuitive Interface	Cloud-based delivery via intuitive and easy-to-use software app.
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; risk management framework (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 CAE MS 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.

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