# CAE**OneWorld**2020

## Defence & Security

Virtual Conference and Tradeshow

www.cae.com/caeoneworld2020

## Starting **July 8th** at 9:00AM (EST)

CAE's vision is to be recognized as the global training partner of choice in helping our customers enhance safety, improve efficiency, and maintain readiness. As a globally recognized training and mission systems integrator, we offer a comprehensive portfolio of training and operational support solutions. With COVID-19 continuing to impact people and countries, we are facing a new reality in training and preparedness.

At **CAE OneWorld 2020,** we will discuss and present solutions to help address these challenges as well as demonstrate CAE's advances in military training and mission support solutions.

Your worldwide
training partner
of choice

CAE

# Product Demonstrations

## Starting at 09:00AM EST on July 8th

**Join CAE's leading experts for the following demonstrations:**

## **CAE Trax Academy** — Pilot Training Continuum

The CAE Trax Academy delivers faster, better, more efficient pilot throughput via an integrated and self-paced training continuum. The Trax Academy supports the military student pilot journey by leveraging the latest digital technologies, data analytics and courseware. Students progress at their own pace through the three segments of "Learn", "Practice" and "Perform" to acquire the requisite knowledge and skills.

**Learn**

**Practice**

**Perform**

Using state-of-the-art digital media such as a mobile app, high-fidelity cross-platform courseware and virtual reality (VR)-enhanced modules, students **Learn** the training procedure.

Next, students **Practice** in the interactive CAE Sprint Virtual Reality (VR) trainer with physical controls, a **CAE Rise**-enabled virtual coach and **CAE Rise** performance assessment to develop transferrable skills and master the maneuver.

The final stage of the student's journey allows them to put the acquired knowledge and skills into action and **Perform**, demonstrating their proficiency through instructor validation on a high-fidelity simulator or actual aircraft. Ultimately, data collection and aggregation through CAE Rise enables continuous training improvement.

## **CAE Medallion MR** e-Series Visual System

The CAE Medallion MR e-Series visual system is a complete and turnkey visual solution designed specifically for military fighter and fast-jet training. The CAE Medallion MR e-Series visual system includes a back-projection dome display system, high-brightness laser projectors and CAE's proven CAE Medallion image generators.

Our demonstration will showcase industry leading electronic collimation, which eliminates parallax errors during head movement and ensures alignment with helmet-mounted display symbology; 3D depth perception through active eyewear for unprecedented depth and speed cueing; and realistic night vision goggle (NVG) training. Unprecedented immersion in typical fast jet training scenarios such as air-to-air refueling (AAR), formation flying, airfield operations and Controlled Flight into Terrain (CFIT) means the CAE Medallion MR e-Series provides a safe, affordable means to practice and help ensure pilots are better prepared for the missions when asked to fly them for real.

## Mission support solutions

An open and fused three-dimensional (3D) dataset is a key enabler for governments and militaries to support operations, mission rehearsal, and decision-making. CAE's collaboration with the Open Geospatial Consortium (OGC) to manage and evolve the OGC CDB delivers a data platform to enable mission support by storing imagery, surface materials, elevation, features, and 3D models in an open and standard 3D format. CAE's mission support objective is to help enhance readiness, interoperability and shared situational awareness between collective, joint and coalition forces across all domains by leveraging the OGC CDB. CAE's mission support activities include supporting the U.S. Joint Staff J7's Terrain Generation Service (TGS); the U.S. Special Operations Command Rapid 3D (R3D) prototyping effort to automate the production of OGC CDB content, including full motion video and satellite imagery; the UK Ministry of Defence Single Synthetic Environment (SSE) decision support capability; and the National Geospatial-Intelligence Agency (NGA) Foundation GEOINT in 3D (FG3D) project to disseminate 3D products to the point-of-need.

## Naval training solutions

Effective naval training is critical to operational success. CAE designs, delivers and supports all aspects of the naval training spectrum and provides solutions capable of training individuals, teams, and the entire fleet in the range of disciplines. Learn more about naval training capabilities we have delivered to the Swedish Navy and are currently delivering to the UAE Navy, and how our naval training continuum can help naval personnel achieve proficiency and ultimately mission success.

## Remotely Piloted Aircraft (RPA) training solutions

Remotely piloted aircraft (RPA) provide strategic capabilities and key operational effects to military forces around the world, and their role will only increase in the future. CAE helps ensure RPA pilots and sensor operators are proficient and mission ready with a range of simulation products and training services. Learn more about our generic CAE Unmanned Aerial System (UAS) Mission Trainer as well as high-fidelity platform-specific training devices such as the CAE Predator Mission Trainer developed in collaboration with General Atomics.

## Aeromedical evacuation training

Combined expertise in the field of both military and medical simulation and training ideally positions CAE's Defence & Security and Healthcare business units to offer comprehensive aeromedical evacuation training solutions. CAE can design, develop and deliver a high-fidelity replica of the fuselage of any air mobility aircraft or helicopter platform specifically configured for aeromedical training scenarios. Realistic, high-fidelity patient simulators from CAE Healthcare are included in our aeromedical evacuation training systems.

Mission support solutions

Naval training solutions

Remotely Piloted Aircraft (RPA) training solutions

Aeromedical evacuation training

# Conference Presentations

## Starting at 10:30AM EST on July 8th

**Join us as we shine the spotlight on CAE's advances in military training and our view of the impact COVID-19 has had and will continue to have on training.**

## Digital Technologies and Innovations in Training

Presenter: Philippe Perey, Head of Technology for CAE Defence & Security

CAE has a long history of innovation and technology leadership, which is continuing under our billion-dollar Project Digital Intelligence R&D initiative. Tasked with ensuring CAE Defence & Security has a robust and relevant technological roadmap to leverage innovations in training, simulation and operational support, Phil works to ensure CAE stays at the forefront of technology in our industry. Join Phil as he outlines some of the key trends and digital technologies and how they apply to military training and operational support, and learn about some of the technology developments CAE is focusing on for future offerings.

## CAE Trax Academy and Transforming Pilot Training

Presenter: Steve Davis, Senior Manager, Instructional Systems Group, CAE USA

Leading the development and implementation of Learning Management Systems and associated training tools, Steve has his finger on the pulse of the transformation taking place in pilot training. Learn about the key factors influencing change and how the training of pilots is evolving. Gain an understanding of the challenges, constraints and creativity involved in changing the paradigm and see how the CAE Trax Academy takes a holistic and comprehensive approach to transforming pilot training.

## COVID-19: Supporting our customers during the pandemic

Presenter: Joe Armstrong, Vice-President Global Business Operations, Products & Solutions, CAE

Joe Armstrong shares how CAE went above and beyond to help ensure our military customers could continue their essential missions during these unprecedented times. Learn about some new training approaches, such as virtual instructor-led classroom courses and training system updates such as offboard instructor operator stations. In addition, hear about how CAE answered the call in Canada to help save lives by quickly developing the CAE Air1 ventilator.

**If you have any further questions, contact your CAE representative or:**

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