

## Training System Updates

# Training on instructor operator stations and tactical environments



CAE offers Training System Updates to existing military customers to enhance training system capability and availability, and prolong the useful life of equipment. As a leading training expert, CAE collaborates with customers to determine the best plan of action for your needs and budget.

## Overview

CAE's military simulators contain powerful tools for instructors to use their flight simulators to their full potential. In addition to teaching aircrew to operate the aircraft, aircrew can be taught to respond to adverse weather conditions and to carry out missions involving friendly or enemy forces. The use of these tools requires in-depth knowledge beyond the basic simulator operation courses provided with the flight simulators.

Instructor Operator Stations (IOS) enable the user to not only control basic simulator functions, but to implement complex lesson plans and weather patterns. In addition, scenarios or doctrines involving synthetic entities generated by CAE's STRIVE CGF (computer-generated forces) software suite can be created. Examples of synthetic entities, acting as either friend or foe, are:

- Humans (soldiers, civilians)
- Ground-based vehicles
- Ships
- Aircraft

## Training Service

CAE offers a series of training courses to instructors who wish to learn how to generate lesson plans, scenarios and doctrines for use on their flight simulator. The courses can be provided at CAE's main office, in Montreal, Canada, or can be given on-site, at the customer's location.

On-site courses have the advantage of combining classroom lessons with practical sessions on the customer's flight simulator, allowing

the instructors to immediately apply the course material they will have learned.

The lesson plans, scenarios and doctrines can be created on the flight simulator itself or off-line, on dedicated computers, to be transferred to the flight simulator at a later time. This has the advantage of not taking training time away from the flight simulator.



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training partner  
of choice



## Examples of Lesson Plans, Scenarios and Doctrines are:

### Lesson Plans:

- General handling – emergencies
- Battlefield air interdiction – sophisticated environment
- Air combat maneuvers – 2 v 1 defensive

### Scenarios:

- Battlefield air interdiction enemy forces
- Ground operations – busy airport
- Fighter area of responsibility operation

### Doctrines:

- Academic range operations
- Autonomous CGF defensive operation
- Overhead break

## Training Details

The following training courses are offered:

### User Operator

*(Basic 5-day course)*

- IOS functions
- Controls of CGF at runtime
- Lesson plans at runtime
- Debrief station operation *(when available)*

### Advanced Lesson Plans

*(Intermediate 10-day course)*

- Lesson plan editor
- Direct entry lesson plans
- Scripted entry lesson plans
- Troubleshooting and validation

### Advanced CGF and Weather

*(Intermediate 10-day course)*

- Offline CGF scenario creation
- Doctrines
- Modifications to CGF specimens *(players, formation geometries)*
- Offline weather scenarios

## Tailored Options for Advanced Training

CAE can also offer expert training for instructors who have already taken the Basic and Intermediate courses and wish to:

- [Learn how to build comprehensive scenarios](#)
- [Create doctrines and assign them to synthetic entities](#)

The material for this training would be tailored to the requirements of an interested customer.

## Program Example

“The level 1 course (IOS), level 2 course (Lesson Plan) and level 3 course (Scenarios and Doctrines) given by CAE allowed the French instructors to acquire solid capabilities related to the use of the simulator equipment. Today, the knowledge given by CAE allows them to program and adapt the simulator to their training needs by simplifying their tasks and making their teaching more efficient.”

### Sébastien Dumas

Commander, Ground School Division,  
French Air Force

## On-Demand Services

Alternatively, CAE can provide Lesson Plans, Scenarios or Doctrines to customers as an on-demand service, based on specific training requirements.

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