

CAE

CIVIL AVIATION

Bombardier Challenger 604

Business Aircraft Maintenance Training



Confidence through
smarter training



Delivering the very BEST AVIATION MAINTENANCE TRAINING while RAISING INDUSTRY STANDARDS

Why you should choose CAE as your maintenance training provider

Proper aircraft and helicopter maintenance is vital to ensure the safety of business air travel. The daily challenges of operating a successful operation in aviation can only be met with adequate preparation and training to keep pace with the continual advancements of the complex technologies found in this constantly changing field.

Let us deliver on the investment of your most valued, strategic asset: your team. CAE can elevate the skillsets of your entire staff, regardless of experience level. We will help attract and prepare new talent with our accelerated learning systems.

With CAE's approach to complete flexibility on multiple fronts: course type, training site, and targeted solutions -we lower downtime, while increasing productivity.

- Realize increased technician potential with our precise and proven course materials and training methods
- Improve your aircraft dispatch rates by building technician confidence with CAE's highly effective, application-oriented, interactive instruction techniques
- Experience higher savings by targeting your training budget at programs which deliver unmatched quality, safety, and results

As a long-standing leader in the field of simulation and other advanced, digital training solutions, CAE is your best choice for improving safety and removing the obstacles which impede your progress. Offering superior maintenance training for over 20 years, we invite you to keep your technicians' skillsets current across a full suite of learning programs for most major OEMs, including Bombardier, Dassault, Embraer, Gulfstream.

With a global network of training centers, highly skilled instructors, and advanced training tools, look to CAE for flexible, relevant, and leading-edge business aircraft maintenance training solutions to enhance safety, efficiency, and readiness for your staff and fleet.

We are here to ensure your success.



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CAE Teaching Objectives

To provide the experienced aircraft technician with knowledge of major systems and major component description, location, and operation; servicing; safety precautions; and troubleshooting to support a typical through-flight maintenance and inspection schedule in accordance with the manufacturer’s Aircraft Maintenance Manual.

Student Training Expectations

Each student should be a Part 66/Part 65 certified Airframe and Powerplant Mechanic or have equivalent experience on similar type aircraft.

Courses are conducted in English and attendees must have a good working knowledge of the language enabling them to speak, read, and write in this language.

The candidate is required to attend at least 95% of all course content in order to successfully complete the training. A mark of 75% or above is needed for any written exams.

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Classroom Discussion

As CAE employs an interactive, application-based learning approach (as opposed to a prepared, abstract lecture), this phase covers classroom discussions comprising:

- in-depth description of systems
- operation, identification, and location of principle components
- maintenance, inspection, and ground run procedures
- routing and theoretical troubleshooting
- preventive maintenance
- safety precautions

The students are encouraged to participate throughout these sessions, which are often interspersed with review questions. This phase may also include visits to the flight line facilities where students are exposed to the real aircraft, system components.



Applied Training Techniques

The practical phase is conducted by an experienced instructor using “hands on” training modules, Fixed Training Device (FTD) or Full Flight Simulator (FFS) and where applicable: real aircraft components. The students are involved in practical tasks associated with maintenance of the aircraft such as:

- Practical troubleshooting
- Servicing Procedures
- System start-up and shut-down procedures
- Normal, Abnormal and Emergency Procedures

This enables the students to apply knowledge gained during other learning phases of this course. A minimum of 5% of the course shall be conducted using possible combinations of a FTD, FFS, the aircraft, mock-ups, or actual aircraft components.



Total Training Environment Flexibility

Courses may be conducted at most of our global network of training centers (including CAE’s hybrid classrooms), at a customer’s facility (off-site), or via distance learning / Live Remote Training (LRT).



605/650 to 604 Differences Maintenance Training Summary

Course Description

Aircraft differences courses offer a sharply focused, detail-oriented comparison of similar aircraft models that require separate type ratings. The focus is on systems that are significantly different between two aircraft models that otherwise share a large portion of other main, common systems.

The emphasis is on building upon what the student already knows about a particular aircraft model and filling the gaps relating to the new model. This comprehensive class is a suitable solution to introduce technicians to the recently acquired aircraft within your fleet.

Course Objectives

The Differences course provides maintenance personnel with cross maintenance qualification between the similar aircraft type variants by offering a description system differences, operation and component location. The course covers the associated avionic differences as well as the overall mechanical differences.

Course Total Time 12 Hrs / 2 Days

SUBJECT

ATA

Aircraft General	6-12
Air Conditioning	21
Electrical Power	24
Fire Protection	26
Flight Controls	27
Fuel	28
Hydraulic Power	29
Ice & Rain System	30
Indicating & Recording	31
Landing Gear	32
Lighting	33
Oxygen	35
Pneumatic	36
Central Maintenance System	45
Airborne Auxiliary Power	49
Power Plant	71-80

Regulatory Compliance

CAE is authorized to conduct this course under the following Regulatory Authority approvals:

- (Unregulated)



601 to 604/605 Differences Maintenance Training Summary

Course Description

Aircraft differences courses offer a sharply focused, detail-oriented comparison of similar aircraft models that require separate type ratings. The focus is on systems that are significantly different between two aircraft models that otherwise share a large portion of other main, common systems.

The emphasis is on building upon what the student already knows about a particular aircraft model and filling the gaps relating to the new model. This comprehensive class is a suitable solution to introduce technicians to the recently acquired aircraft within your fleet.

Course Objectives

The Differences course provides maintenance personnel with cross maintenance qualification between the similar aircraft type variants by offering a description system differences, operation and component location. The course covers the associated avionic differences as well as the overall mechanical differences.

Course Total Time 30 Hrs / 5 Days

SUBJECT

ATA

Times and Limitations	5
Aircraft General	6-12
Air Conditioning	21
Auto Flight	22
Communication	23
Electrical Power	24
Fire Protection	26
Flight Controls	27
Fuel	28
Hydraulic Power	29
Ice & Rain System	30
Indicating & Recording	31
Landing Gear	32
Lighting	33
Oxygen	35
Pneumatic	36
Central Maintenance System	45
Airborne Auxiliary Power	49
Power Plant	71-80

Regulatory Compliance

CAE is authorized to conduct this course under the following Regulatory Authority approvals:

- (Unregulated)



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