



## C Series

# Bridge Course

### Course Description

- Situation: A pilot intends to attend a C Series type rating course, but has no previous experience in modern glass cockpits.
  - The Bridge Course enables inexperienced trainees to successfully complete a C Series type rating course. The overall philosophy associated with the man-machine interface in highly advanced flight decks is introduced. The importance of clear duty distribution between the PF (Pilot Flying) and the PM (Pilot Monitoring) will be underlined.
  - Main focus of the Bridge Course is to make the trainee familiar with the basic features of:
    - PFD (Primary Flight Display): Main instruments within the PFD; display formats; basic T; proper scanning technique
    - ND (Navigation Display): Main indications within the ND; display formats; proper scanning technique
    - MFW (Multi-function Window): What is displayed; what can be selected on the MFW
    - EICAS (Engine Indication and Crew Alerting System): EICAS display philosophy; proper teamwork when dealing with alerts; alert inhibits depending on phase of flight; the different message and warning levels
  - The Bridge Course offers as an add-on to the type rating course:
    - One full-day classroom training
    - Three days practical training on a full-flight simulator (3 x 4h)
- Theoretical training is embedded in the theoretical part of the type rating course. Practical training is scheduled before the practical training of the type rating course.
- The Bridge Course is not offered as a stand-alone product, but will be combined with the C Series type rating course.

### Aircraft Type

- C Series CS100 and CS300 (BD-500)

### Benefits

- Excellent preparation for the C Series type rating course that is due to follow.
- Increases the probability for inexperienced trainees to complete a type rating course successfully in standard time.
- High level of expertise of instructors with crew procedures on highly advanced flight decks.

### Course Goal

- The aim of each Bridge Course is to efficiently prepare inexperienced trainees for the practical training part of a type rating course.

### Prerequisites for Student Pilots

- Similar to the type rating course.
- Flight Training Alliance recommends the Bridge Course for trainees, who meet one of the following criteria:
  - Limited or no experience on FMS-equipped aircraft types
  - Limited or no experience on glass cockpit aircraft types
  - Total experience on MPA aircraft types is below 500 flight hours
  - Recent experience in the last 12 months on MPA aircraft types is below 50 flight hours

## Training Documents

The training documentation is the same as for the type rating course, with following extensions:

- Course syllabus is extended accordingly.
- Training record is extended accordingly.

## Theoretical Training

Theoretical training is performed during the theoretical phase of the type rating course.

One additional classroom lesson (1 day) will be scheduled:

- General flight deck design philosophy.
- What is “dark cockpit philosophy”?
- Proper scanning technique for advanced flight decks, featuring PFDs and NDs.
- Standard operating procedures in relation to EICAS.
- CAS message levels and their meaning.
- Colors used on displays and their meaning.
- Proper use of the Multifunction Keyboard Panel (MKP) and the Cursor Control Panel (CCP).
- The importance of standard operating procedures in terms of PF and PM duties.

## Practical Training and Checking

Practical training is performed immediately before the first full-flight simulator lesson of the type rating course. Similar to the MCC Course, practical training can alternatively be positioned in front of the FTD part of the type rating.

- FFS training is in total 12 hours per crew (three times four hours).
- The third FFS mission of the Bridge Course serves as phase check to assess that the trainee is ready for the type rating FFS missions.
- Each practical training is preceded by a 1.5 hour briefing and followed by a detailed debriefing of the instructor.

## Course Structure and Duration (typical)

### Theoretical training

- Classroom training 7 hours

### Practical training

- Three lessons on FFS, 4 hours each

Self-study / WBT  Classroom  Training on system trainer  Practical training on FFS  Theoretical test  Practical test