

A318/A319/A320/A321 to A330 GE Cross Maintenance Qualification – T1+T2

1.1 Course Description Theory

Duration	25 Days theory+P1 & 4 days practical P2 on a/c
Objectives	Upon completion of this difference course, the trainee will have acquired the additional knowledge and skills, which complement the related knowledge, skills learned and experience gained on the A318/319/320/321 aircraft, so that they may safely maintain the A330 aircraft equipped with GE CF6 engines in a reliable and airworthy condition.
Course capacity	Standard class : 12 trainees for theory 6 per practical training group
Target population	Technical personnel associated with line and base maintenance activities. Maintenance Certifying Technicians – Mechanics + Avionics, who are holders of a basic license or equivalent and who seek type qualification on the aircraft.
Prerequisite	Personnel must be qualified on the A318/319/320/321 aircraft equipped with CFM OR IAE OR PW engines, i.e. they must: - be a currently certifying engineer (or eligible to certifying) on the source aircraft or - have the source aircraft type on the license for less than 30 months or - have a Part 147 certificate on source aircraft for less than 30 months. Student should be able to read, write and communicate at an understandable level in English language.
Language	English or French
Course location	Sabena technics training Bordeaux-Mérignac, France or Customer site.
Description	<p>This course comprises detailed theoretical and practical difference training for the systems and to the level listed in the related regulatory document.</p> <p>THEORETICAL COURSE ELEMENT The content of the theoretical difference training element complies with the requirements defined in the related documents for Certifying Staff. The trainee receives difference training on related systems and must demonstrate by knowledge examination a detailed understanding of those systems, on which he/she received difference training.</p> <p>PRACTICAL COURSE ELEMENT P1: The use of Trainee Guide enables the trainees to perform practical elements, such as operational and functional checks, troubleshooting, fault isolation, MEL dispatch and other necessary procedures to confirm their competence for task performance. Component location & replacement training subjects are covered by the use of either real or virtual aircraft, synthetic training devices, mock-ups or simulation. The content of this practical training element P1 fulfils partially the requirements defined in the related documents for Certifying Staff Type Training Courses for the category B1.1 & B2 Aeroplanes Turbine.</p> <p>PRACTICAL COURSE ELEMENT P2: Practical hands-on training according to the practical training booklet requiring the availability of the real aircraft is organized during or after the theory training.</p>
Note	<p>The examination of the CMQ courses is a full examination on the target type rating for a given category! The course requires hence a good knowledge of the source aircraft and/or a profound revision of the items that are common to both aircraft types.</p>
Documentation	<ul style="list-style-type: none">• Training Manual on CD-ROM• Abbreviation Booklet• AMM/ASM extracts (according to subject)• Cockpit Panel drawings

1.2 Course Syllabus Theory

1.

Allocated Training Time Per ATA Subject		
ATA	System/Subject	Theoretical Element (hours)
00	ACRM	0
00	Documentation	1.25
05 through 12	A/C General & Servicing	0.9
21	Air Conditioning	12.1
22	Auto Flight	3
23	Communications	5.25
24	Electrical Power	6.6
25	Equipment & Furnishings	2.35
26	Fire Protection	3
27	Flight Controls	9.6
28	Fuel Systems	8.1
29	Hydraulic Power	6.6
30	Ice & Rain Protection	2.35
31 EIS	Electronic Indicating System	3.35
31 (R)	Recording Systems	2
32	Landing Gear	7.85
33	Lights	2.1
34	Navigation	3.1
35	Oxygen	1.25
36	Pneumatic	2.75
38	Water/Waste	2.1
45	OMS/CMS	5.6
46	Information Systems	0.5
49	APU	5.1
51	Airframe Structure	2.25
52	Doors	4.35
53	Fuselage	0.25
54	Nacelles/Pylons	0.25
55	Stabilisers	0.25
56	Windows	0.25
57	Wings/Flight Control Surfaces	0.25
71/72	Power Plant/Engine	3.35
73	Engine Fuel & Control	3
74/80	Ignition/Starting	1.5
75	Air	1.5
76	Engine Controls	1.75
77	Engine Indicating	1.75
78	Exhaust	1.5
79	Oil	1.5
	Total	120.5

2.

Practical on Trainers (P1)

Electric/Avionics Systems	8.5
Airframe Systems	3.5
Power Plant Systems	11
Total	23

Practical on A/C (P2)

Electric/Avionics Systems	6
Airframe Systems	9
Power Plant Systems	8.5
Total	23.5

Examinations

SA A/C Systems review	1.5
Electric/Avionics Systems	3.75
Airframe Systems	3.5
Power Plant Systems	3.25
Total	12

Logistics

Welcome/Briefing	2
Debriefing	2.5
Total	4.5

Total Duration

Theoretical Element	120.50
Logistics	4.50
Examinations	12.00
Practical P1	23.00
Practical P2	23.50
Total hours	183.50
Total days:	28.23