CBT TNA – A330 95HR

Training Needs Analysis – A330 80 Hour (All **Classic** engines) CBT Online Course and includes the additional material for the A330 800/900 (NEO) as fitted with RR Trent 7000 engine. There is a separate TNA for the A330 80HR CBT online if the A330 800/900 extensions are not completed / required; this is the principal contents requirements for the A330 95 Hour course and should be interpreted as follows:

ATA Ref is intended to be as per ATA 100 Chapters and **ATA_Description** offers a summary of Numerical Chapter.

Basic – This is the intended learning time attributed to the content associated with each ATA and shall be measured in Hours or Fractions of Hours; for example, 0.5 is considered 30 Minutes.

Engines – This is a multiple intended for engine ATA's only and shall offer a multiple where engines associated with a course is greater than 1.

Total – This is the total learning time per ATA and considers the additional engines impact on total learning time.

Questions Min – This is based on learning hours and as such a minimum of 1 question is associated with a learned ATA; where an hour total is in fractions then the minimum question is rounded up in all cases – note that this is a minimum and questions in examinations may exceed this number but must not fall below.

A330 200/300 (All engine options)

ATA_Ref	ATA_Description	Basic	Engines	Total	Questions Min
01	INTRODUCTION	1.00	0	1	1
05	PERIODIC INSPECTIONS	0.50	0	0.5	1
06	DIMENSIONS AND AREAS	1.00	0	1	1
07	LIFTING AND SHORING	0.50	0	0.5	1
08	LEVELLING AND WEIGHING	0.40	0	0.4	1
09	TOWING AND TAXIING	0.50	0	0.5	1
10	PARKING, MOORING, STORAGE AND RETURN TO SERVICE	0.50	0	0.5	1
11	PLACARDS AND MARKINGS	0.00	0	0	0
12	SERVICING - ROUTINE MAINTENANCE	1.00	0	1	1
20	STANDARD PRACTICES - AIRFRAME	0.75	0	0.75	1
21	AIR CONDITIONING	2.00	0	2	2
22	AUTO FLIGHT	1.00	0	1	1

ATA_Ref	ATA_Description	Basic	Engines	Total	Questions Min
23	COMMUNICATIONS	1.25	0	1.25	2
24	ELECTRICAL POWER	2.50	0	2.5	3
25	EQUIPMENT / FURNISHINGS	1.75	0	1.75	2
26	FIRE PROTECTION	2.00	0	2	2
27	FLIGHT CONTROLS	2.25	0	2.25	3
28	FUEL	2.00	0	2	2
29	HYDRAULIC POWER	1.50	0	1.5	2
30	ICE AND RAIN PROTECTION	1.50	0	1.5	2
31	INDICATING / RECORDING SYSTEMS	2.50	0	2.5	3
32	LANDING GEAR	2.00	0	2	2
33	LIGHTS	1.25	0	1.25	2
34	NAVIGATION	2.00	0	2	2
35	OXYGEN	1.25	0	1.25	2
36	PNEUMATIC	2.00	0	2	2
38	WATER / WASTE	1.75	0	1.75	2
45	ONBOARD MAINTENANCE SYSTEM (OMS)	1.75	0	1.75	2
46	INFORMATION SYSTEMS	2.50	0	2.5	3
47	INERT GAS SYSTEM	0.00	0	0	0
49	AIRBORNE AUXILIARY POWER	2.25	0	2.25	3
51	STANDARD PRACTICES AND STRUCTURES - GENERAL	2.50	0	2.5	3
52	DOORS	2.00	0	2	2
53	FUSELAGE	0.75	0	0.75	1
54	NACELLES / PYLONS	0.75	0	0.75	1
55	STABILIZERS	0.50	0	0.5	1
56	WINDOWS	0.75	0	0.75	1
57	WINGS	0.50	0	0.5	1
70	STANDARD PRACTICES - ENGINE	1.00	3	3	3
71	POWER PLANT - GENERAL	0.50	3	1.5	2

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ATA_Ref	ATA_Description	Basic	Engines	Total	Questions Min
72	ENGINE	1.00	3	3	3
73	ENGINE - FUEL AND CONTROL	0.75	3	2.25	3
74	IGNITION	0.50	3	1.5	2
75	BLEED AIR	1.00	3	3	3
76	ENGINE CONTROLS	1.00	3	3	3
77	ENGINE INDICATING	1.00	3	3	3
78	EXHAUST	1.00	3	3	3
79	OIL	1.00	3	3	3
80	STARTING	1.00	3	3	3
	Total Summary Count	51		80	94

Totals Note:

Total Airframe Hours: YELLOW

Total Engine Hours including Airframe: BLUE

Minimum Questions associated with the course: RED

This course is intended to be a learning course with **80 learning hours**.

This course covers only **theoretical knowledge** and while picture and video might be used as required it shall not be intended for practical assessment or instruction.

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A330 800/900 with Trent 7000 Extensions / Interfaces Course

ATA_Ref	ATA_Description	Basic	Engines	Total	Questions Min
01	INTRODUCTION	0.50	0	0.5	1
06	DIMENSIONS AND AREAS	0.50	0	0.5	1
07	LIFTING AND SHORING	0.25	0	0.25	1
08	LEVELING AND WEIGHING	0.25	0	0.25	1
09	TOWING AND TAXIING	0.25	0	0.25	1
10	PARKING, MOORING, STORAGE AND RETURN TO SERVICE	0.25	0	0.25	1
12	SERVICING - ROUTINE MAINTENANCE	0.50	0	0.5	1
21	AIR CONDITIONING	1.00	0	1	1
26	FIRE PROTECTION	0.50	0	0.5	1
30	ICE AND RAIN PROTECTION	0.50	0	0.5	1
36	PNEUMATIC	1.00	0	1	1
70	STANDARD PRACTICES - ENGINE	1.00	1	1	1
71	POWER PLANT - GENERAL	1.00	1	1	1
72	ENGINE	1.00	1	1	1
73	ENGINE - FUEL AND CONTROL	1.00	1	1	1
74	IGNITION	1.00	1	1	1
75	BLEED AIR	0.50	1	0.5	1
76	ENGINE CONTROLS	0.50	1	0.5	1
77	ENGINE INDICATING	0.75	1	0.75	1
78	EXHAUST	1.00	1	1	1
79	OIL	0.50	1	0.5	1
80	STARTING	1.00	1	1	1
	Total Summary Count	15		15	22

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Totals Note:

Total Airframe Hours: <mark>YELLOW</mark>

Total Engine Hours including Airframe: <mark>BLUE</mark>

Minimum Questions associated with the course: <mark>RED</mark>

This course is intended to be a learning course with **15 learning hours**.

This course covers only **theoretical knowledge** and while picture and video might be used as required it shall not be intended for practical assessment or instruction.

NOTE the combined course A330 200/300 & 800/900 with both TNA applied is 95 Hours duration.

Course Content: **Level II:** Ramp and Transit - for personnel associated with through flight maintenance activities.

Level II Guidance:

Level II: Basic system overview of controls, indicators, principal components, including their location and purpose, servicing and minor troubleshooting. General knowledge of the theoretical and practical aspects of the subject.

Course objectives: In addition to the information contained in the Level 1 training, at the completion of Level 2 training, the student will be able to:

(a) understand the theoretical fundamentals; apply knowledge in a practical manner using detailed procedures.

(b) recall the safety precautions to be observed when working on or near the aircraft, powerplant and systems.

(c) describe systems and aircraft handling particularly access, power availability and sources.

(d) identify the locations of the principal components.

(e) explain the normal functioning of each major system, including terminology and nomenclature.

(f) perform the procedures for servicing associated with the aircraft for the following systems: Fuel, Power Plants, Hydraulics, Landing Gear, Water/Waste, and Oxygen.

(g) demonstrate proficiency in use of crew reports and on-board reporting systems (minor troubleshooting) and determine aircraft airworthiness per the MEL/CDL.

(h) demonstrate the use, interpretation and application of appropriate documentation including instructions for continued airworthiness, maintenance manual, illustrated parts catalogue, etc.

Note: - Usage of Level III is permitted where required to aid learning and understanding. This should be kept to a minimum throughout the course and utilised only for aiding learning; level III matter is not to be examined and level III questions accordingly shall not be formed for this course.

Online Questions are based on modular learning and shall be presented following completion of a module – it shall be possible to progress modules without completing the associated questions although no certificate or course completion will be considered without all module questions accomplished to a minimum **pass rate of 75%**.

Queries and concerns on examination material shall only be addressed by examination manager.