

CBT TNA – B787 40HR

Training Needs Analysis – B787 40 Hour (All engines) CBT Online Course

This is the principal contents requirements for the B787 40 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.

| ATA_Ref | ATA_Description | Basic | Engines | Total | Questions Min |
|---------|---|-------|---------|-------|---------------|
| 01 | INTRODUCTION | 0.50 | 0 | 0.5 | 1 |
| 05 | PERIODIC INSPECTIONS | 0.50 | 0 | 0.5 | 1 |
| 06 | DIMENSIONS AND AREAS | 0.50 | 0 | 0.5 | 1 |
| 07 | LIFTING AND SHORING | 0.50 | 0 | 0.5 | 1 |
| 08 | LEVELING AND WEIGHING | 0.10 | 0 | 0.1 | 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 | 0.50 | 0 | 0.5 | 1 |
| 20 | STANDARD PRACTICES - AIRFRAME | 0.50 | 0 | 0.5 | 1 |
| 21 | AIR CONDITIONING | 1.00 | 0 | 1 | 1 |
| 22 | AUTO FLIGHT | 0.50 | 0 | 0.5 | 1 |
| 23 | COMMUNICATIONS | 0.75 | 0 | 0.75 | 1 |

| ATA_Ref | ATA_Description | Basic | Engines | Total | Questions Min |
|---------|---|-------|---------|-------|---------------|
| 24 | ELECTRICAL POWER | 0.75 | 0 | 0.75 | 1 |
| 25 | EQUIPMENT / FURNISHINGS | 0.75 | 0 | 0.75 | 1 |
| 26 | FIRE PROTECTION | 0.75 | 0 | 0.75 | 1 |
| 27 | FLIGHT CONTROLS | 1.00 | 0 | 1 | 1 |
| 28 | FUEL | 0.75 | 0 | 0.75 | 1 |
| 29 | HYDRAULIC POWER | 0.75 | 0 | 0.75 | 1 |
| 30 | ICE AND RAIN PROTECTION | 0.75 | 0 | 0.75 | 1 |
| 31 | INDICATING / RECORDING SYSTEMS | 1.00 | 0 | 1 | 1 |
| 32 | LANDING GEAR | 1.00 | 0 | 1 | 1 |
| 33 | LIGHTS | 0.75 | 0 | 0.75 | 1 |
| 34 | NAVIGATION | 1.00 | 0 | 1 | 1 |
| 35 | OXYGEN | 0.75 | 0 | 0.75 | 1 |
| 36 | PNEUMATIC | 0.75 | 0 | 0.75 | 1 |
| 38 | WATER / WASTE | 0.75 | 0 | 0.75 | 1 |
| 42 | INTEGRATED MODULAR AVIONICS | 0.75 | 0 | 0.75 | 1 |
| 44 | CABIN SYSTEMS | 0.75 | 0 | 0.75 | 1 |
| 45 | CENTRAL MAINTENANCE SYSTEM (CMS) | 1.00 | 0 | 1 | 1 |
| 46 | INFORMATION SYSTEMS | 1.00 | 0 | 1 | 1 |
| 47 | INERT GAS SYSTEM | 0.75 | 0 | 0.75 | 1 |
| 49 | AIRBORNE AUXILIARY POWER | 0.75 | 0 | 0.75 | 1 |
| 51 | STANDARD PRACTICES AND STRUCTURES - GENERAL | 0.75 | 0 | 0.75 | 1 |
| 52 | DOORS | 0.75 | 0 | 0.75 | 1 |
| 53 | FUSELAGE | 1.00 | 0 | 1 | 1 |
| 54 | NACELLES / PYLONS | 1.00 | 0 | 1 | 1 |
| 55 | STABILIZERS | 1.00 | 0 | 1 | 1 |
| 56 | WINDOWS | 1.00 | 0 | 1 | 1 |
| 57 | WINGS | 1.00 | 0 | 1 | 1 |
| 70 | STANDARD PRACTICES - ENGINE | 0.25 | 2 | 0.5 | 1 |

| ATA_Ref | ATA_Description | Basic | Engines | Total | Questions Min |
|---------|---------------------------|-------|---------|-------|---------------|
| 71 | POWER PLANT - GENERAL | 0.50 | 2 | 1 | 1 |
| 72 | ENGINE | 0.50 | 2 | 1 | 1 |
| 73 | ENGINE - FUEL AND CONTROL | 0.50 | 2 | 1 | 1 |
| 74 | IGNITION | 0.50 | 2 | 1 | 1 |
| 75 | BLEED AIR | 0.50 | 2 | 1 | 1 |
| 76 | ENGINE CONTROLS | 0.50 | 2 | 1 | 1 |
| 77 | ENGINE INDICATING | 0.50 | 2 | 1 | 1 |
| 78 | EXHAUST | 0.50 | 2 | 1 | 1 |
| 79 | OIL | 0.50 | 2 | 1 | 1 |
| 80 | STARTING | 0.50 | 2 | 1 | 1 |
| | | | | | |
| | Total Summary Count | 29 | 11 | 40 | 50 |

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 **40 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.

Course Content: **Level I:** General Familiarization – For personnel who must be familiar with current equipment and have a general knowledge of turbine powered transport aircraft.

Level I Guidance:

Level I: A brief overview of the airframe, systems and powerplant as outlined in the Systems.

Description Section of the Aircraft Maintenance Manual/Instructions for Continued Airworthiness.

Course objectives: Upon completion of Level 1 training, the student will be able to:

- (a) provide a simple description of the whole subject, using common words and examples, using typical terms and identify safety precautions related to the airframe, its systems and powerplant.
- (b) identify aircraft manuals, maintenance practices important to the airframe, its systems and powerplant.
- (c) define the general layout of the aircraft's major systems.
- (d) define the general layout and characteristics of the powerplant.
- (e) identify special tooling and test equipment used with the aircraft.

Note: - Usage of Level II 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 II matter is not to be examined and level II questions accordingly shall not be formed for this course.

Note: - Usage of Level III is not permitted in the material 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.