

EASA / UK CAA ETOPS & ICAO EDTO - Training Needs Analysis

This course is to be aware of the target audience and also of the requirement for Initial and Continuation Training where deemed required for persons involved and working on ETOPS and EDTO aircraft. Please note that the course does not meet the FAA requirements as these are specific to type and engine configuration alongside the training course. The FAA ETOPS/EDTO training course are available and please enquire for combinations needed.

ICAO, EASA & UK CAA ETOPS / EDTO Course Standards:

The UK CAA and EASA are adopting EDTO and at the time of creation this course meets the EDTO training needs of ICAO Doc 10085 Extended Diversion Time Operations (EDTO) Manual which is currently being adopted into the UK CAA and EASA Framework – at the point it becomes legislation the course will be re written to be compliant to this change.

The course is written to be compliant with:

- ICAO Doc 10085 Extended Diversion Time Operations (EDTO) Manual
- EASA AMC 20-6 Rev 2 Appendix 8
- UK CAA AMC 20-6 January 2021

Course Target Audience

Persons involved in the management, maintenance and operations for EASA & UK CAA ETOPS Aircraft including:

- CAMO Persons providing support, review and involved with ETOPS aircraft continued airworthiness and management.
- Engineering / Maintenance Staff.
- Support Staff linked with release, management or support functions dealing with ETOPS aircraft.

ETOPS / EDTO Combined EASA / UK CAA / ICAO Training Needs Syllabus:

The course will address and consider the following topics and be based on continual assessment throughout.

ETOPS Syllabus Content

1. INTRODUCTION TO ETOPS REGULATIONS

- Contents of AMC 20-6 (EASA & UK CAA Covered).
- ETOPS Type Design Approval – a brief synopsis.

2. ETOPS OPERATIONS APPROVAL

- Maximum approved diversion times and time-limited systems capability.
- Operator's Approved Diversion Time.
- ETOPS Area and Routes.
- ETOPS MEL.

3. ETOPS CONTINUING AIRWORTHINESS CONSIDERATIONS

- ETOPS significant systems.
- CMP and ETOPS aircraft maintenance programme.
- ETOPS pre-departure service check.
- ETOPS reliability programme procedures.
 - Engine/ APU oil consumption monitoring.
 - Engine/APU Oil analysis.
 - Engine conditioning monitoring.
 - APU in-flight start programme.
 - Verification programme after maintenance.
 - Failures, malfunctions, and defect reporting.
 - Propulsion System Monitoring/Reporting.
 - ETOPS significant systems reliability.
- Parts and configuration control programme.
- CAMO additional procedures for ETOPS.
- Interface procedures between Part-145 organisation and CAMO.

EDTO Syllabus Content:

- Introduction to EDTO regulations.
- Focus on applicable elements of national EDTO regulation.
- Overview of EDTO certification of twin-engine aircraft.
- EDTO significant systems.
- EDTO authorization (maximum diversion times, TLSs, operator's approved diversion time, EDTO routes, EDTO MEL).
- CMP and EDTO maintenance programme.
- EDTO pre-departure service check (including the EDTO maintenance release).
- EDTO reliability programme procedures.
 - Parts control programme.
 - EDTO service check.
 - Reliability programme.
 - Propulsion system monitoring.
 - Verification programme.
 - Dual maintenance limitations.
 - Engine condition monitoring.
 - Oil consumption monitoring.
 - APU in-flight start monitoring programme.

Initial Training:

The course we provide at OAT.aero shall be considered as a detailed course on the theoretical and practical implementation elements of the subject through examples where required. It includes requirements of the formal TNA noted in ICAO Doc 10085 Extended Diversion Time Operations (EDTO) Manual, EASA AMC 20-6 Rev 2 Appendix 8 and UK CAA AMC 20-6 January 2021.

Continuation Training:

Continuation Training is recommended periodically to refresh subject matter and stay current in changes – such training might typically be carried out each 24 months (2 years) or as required in relevant procedures.

Course General Requirements:

This course is intended to be a learning course with 3-4 **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.

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.