AMS500 - Continuing & continued airworthiness

From the Advanced Master AMS: E&M

(Aeronautical Maintenance and Support: Engineering & Management)

Key elements

Period: **Early February**

Estimated duration: **25 hours**

For whom:
recent graduates, jobseekers and experienced employees

Location:
ISAE-SUPAERO, Toulouse

Language: **English**

Highlights

- EASA regulations in practice
- Industrial expertise
- ETOPS approval

This module provides a thorough examination of requirements of EASA for continued and continuing airworthiness. A more dedicated focus on continuing airworthiness management, maintenance organizations and in-service occurrence reporting and airworthiness directive processes is provided. Considering the related specificities for maintenance activities, the module also describes extended operations (ETOPS/EDTO) and associated requirements.

Learning objectives

After completing this course, participants will be able to:

- Describe the applicable EASA regulations for continued and continuing airworthiness;
- Describe the EASA Part-21 maintenance requirements, and EASA Part-M/145/147/66 obligations applicable to involved stakeholders;
- Understand the in-service occurrence reporting system and the significance of an airworthiness directive;
- Understand the maintenance requirements significance for extended operations.

Prerequisites

- Familiarization with air laws and airworthiness;
- Aircraft architecture and basic aeronautics knowledge.

Information and registration

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Course content

Continued airworthiness:

- In-service occurrence reporting
- Investigation process
- Airworthiness review meeting
- Airworthiness directive
- Practical cases

Continuing airworthiness:

- Context and applicable regulations
- EASA Part-M (continuing airworthiness management)
- EASA Part-145 (maintenance organizations)
- EASA Part-147 (training organizations)
- EASA Part-66 (certifying staff)

ETOPS/EDTO operations:

- Concept, background and experience
- Regulation
- ETOPS approval (type design and reliability, operational)
- ETOPS maintenance requirements and practices (policies, procedures, reliability program)

Case study on continuing airworthiness and aircraft transfer

Teaching methods

Teaching methods	Yes
Lectures / tutorial	X
Collaborative learning	
Flipped classroom	
Blended learning (online and face to face)	
Learning by doing	X
Project-based	
Simulation	
Case study	X

Assessment

Written exam 50 % - Case studies report evaluation 50 %