CHOOSE AEROSPACE

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Aviation Maintenance Curriculum

Maintenance and Inspection Regulations Course Syllabus

About The Course: This course was developed in alignment with the FAA Airman Certification Standards and supports the general knowledge, risk management, and skill elements related to maintenance, inspections, and regulations.

The course is divided into four modules. Learners will study the privileges and limitations of FAA-certificated mechanics and repairmen, the requirements for performing maintenance and inspections, the use of required publications and documentation, maintenance records, product and part certification standards, Light-Sport Aircraft maintenance requirements, ethics, professionalism, and human factors in aviation maintenance.

Couse Number: FAA-ACS-AM-II-MIR

ACS Reference: Regulations, Maintenance Forms, Records, and Publications (AM.I.I)
Human Factors (AM.I.L)

Revision Number: 04
Revision Date: 10/26/26
Original Issue Date: 07/13/21

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Course Objectives:

1. Describe the privileges and limitations of FAA-certificated mechanics, repairmen, and Inspection Authorization holders.
2. Use required publications, documentation, forms, and records to support maintenance and inspection activities.
3. Identify certification, identification, marking, and approval standards that apply to aircraft products and parts.
4. Explain ethical standards, professionalism, and human factors approaches used to identify and reduce risks in aviation maintenance.

Module 1: Maintenance, Inspections, and Mechanic Privileges

- Lesson 1.1 – Overview of the Maintenance Technician
- Lesson 1.2 – Title 14 Overview
- Lesson 1.3 – Maintenance Related Regulations
- Lesson 1.4 – Mechanic Certification – General
- Lesson 1.5 – Mechanic Certification – Specific
- Lesson 1.6 – Inspection Authorization
- Lesson 1.7 – FAR Part 43 Maintenance, Preventive Maintenance, Rebuilding, and Alteration
- Lesson 1.8 – FAR Part 91 General Operating and Flight Rules

Module 2: Performing and Recording Maintenance and Inspections

- Lesson 2.1 – Types of Inspections
- Lesson 2.2 – Special Inspections and Permits
- Lesson 2.3 – Inspection Preparation, Logs, and Checklists
- Lesson 2.4 – Publications
- Lesson 2.5 – FAA and Non-FAA Documents
- Lesson 2.6 – Forms
- Lesson 2.7 – Records

Module 3: Products, Parts and LSA Maintenance

- Lesson 3.1 – Parts Certification Regulations
- Lesson 3.2 – Control of Parts

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- Lesson 3.3 – Light Sport Aircraft (LSA) Maintenance

Module 4: Maintenance Ethics and Human Factors

- Lesson 4.1 – Ethical Decision-Making for Aviation Technicians
- Lesson 4.2 – The Importance and History of Human Factors
- Lesson 4.3 – Current Approaches in Human Factors

SkilRedi simulations included in this course:

- n/a

Hands on labs

- n/a

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Each lesson contains the following:

- Lesson Objectives
- Video lecture
- Multiple readings with interactive animations
- Assigned readings in the applicable FAA 8083 Chapter
- Summary and Key Terms
- Assessment Activities

Each Module contains the following:

- Standards and Objectives
- Pre-Assessment
- Key Concepts and Terms
- Further Study
- Module Quiz
- Module Critical Thinking Activity
- Module Survey

Each Course contains the following:

- Course Pre-Test
- Course Introduction
- Course Comprehensive Assessment
- Course Survey

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