

Aviation Technology- Maintenance
Standard Course Outline

AVTG 1071 - CLEANING AND CORROSION CONTROL

Catalog Description: Chemicals, materials, and procedures used to clean aircraft and to prevent and control corrosion. Clock hours: 12 lecture, 18 shop

Prerequisite: AVTG 1001

Credit hours/ Contact hours/ Load hours: 1/30/6 hours per day for 5 days

Target Audience & Transferability:

This course is designed for students seeking a Certificate of Proficiency, Technical Certificates in Airframe and Powerplant, an AAS in Aviation Maintenance Technology, or an AS in Aviation Maintenance Management. Individual AVT courses or Certificates may be transferable to other FAA Certified Aviation Maintenance Technician schools under Federal Regulations

Common Objectives/ Student Outcomes:

REFERENCES: ABS; AC 43-4A; AMT-G.

FAA Standard: *FAA-S-8081-26* 1-7, Change 2 9/24/03

By the end of the course, students will:

1. Exhibit knowledge of at least two of the following—
 - a. aircraft preparation for washing, general aircraft cleaning (washing) procedures.
 - b. postcleaning (washing) procedures.
 - c. corrosion theory.
 - d. types/effects of corrosion.
 - e. conditions that cause corrosion.
 - f. corrosion prone areas in aircraft.
 - g. corrosion preventive maintenance procedures.
 - h. inspection for and identification of corrosion in any of its various forms.
 - i. corrosion removal and treatment procedures.
 - j. use of Material Safety Data Sheets (MSDS).

2. *Demonstrate the ability to:
 - a. Inspect for and identify two or more of the various forms of corrosion that affect aircraft. (Level 3)*Core competency element.

3. Demonstrate the ability to perform at least one of the following—
 - a. identify and select materials used to clean interior and/or exterior surfaces according to aircraft manufacturer's instructions. (Level 2)
 - b. corrosion removal from any of the metals commonly used in aircraft. (Level 3)
 - c. preventive corrosion treatment on any of the metals commonly used in aircraft. (Level 3)
 - a. identify and select appropriate corrosion preventive methods and materials for a specific aircraft application. (Level 2)

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Required Text(s):

General Textbook (ASA)	ISBN # 1-56027-550-3
General Test Study Guide (ASA)	ISBN # 1-56027-570-7
FAR Handbook for AMT (ASA)	ISBN # 1-56027-563-4
AC43.13-1B Acceptable Methods, Practices, & Techniques (ASA)	ISBN # 1-56027-488-3

Optional Text(s):

Technician General Textbook (Jeppesen)	ISBN # 0-88487-203-3
Technician General Workbook (Jeppesen)	ISBN # 0-88487-212-2
AC65-9A Aircraft Mechanics Handbook General (FAA)	ISBN # 1-56027-064-0

Supporting Reference(s)

O&P Study Guide (ASA)	ISBN # 1-56027-406-9
Maintenance Handbook (ASA)	ISBN # 1-56027-518-9
Dictionary of Aeronautical Terms (ASA)	ISBN # 1-56027-587-2

The workbooks and test study guides may be used to aid the instructor and students to reinforce the textbook information. Other Textbooks may be issued depending upon availability.

Required Methods of Instruction:

Classes are taught off-campus in a full time day or night format, requiring maximum attendance. Attendance is taken every hour. Missed time must be made up outside of regular scheduled class time before moving to the next subject.

Required Forms of Assessment:

Periodic exams will be performed by FAA approved instructors as required to insure progress. Students must pass this course with a 70% or better to qualify for an FAA approved Certificate of Completion in the General Section.