

Aviation Technology- Maintenance  
Standard Course Outline

AVTP 1051 - ENGINE FIRE PROTECTION SYSTEMS

Catalog Description: Fire protection systems and components, including inspection, repair and service. Clock hours: 14 lecture, 10 shop

Prerequisite: AVTG 1001

Credit hours/ Contact hours/ Load hours: 1/24/6 hours per day for 4 days

Target Audience & Transferability:

This course designed for students seeking a Technical Certificate in Powerplant or, when combined with General and Airframe, 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.

Course Topics/ Student Outcomes:

REFERENCES: AGTP; AC 65-15A.

FAA Standard: *FAA-S-8081-28 5-2*, Change 2 (9/24/2003)

**By the end of the course, students will:**

1. Exhibit knowledge of at least two of the following—
  - a. checks to verify proper operation of an engine fire detection and/or extinguishing system.
  - b. troubleshoots an engine fire detection and/or extinguishing system.
  - c. inspection requirements for an engine fire extinguisher squib and safety practices/precautions.
  - d. components and/or operation of an engine fire detection and/or extinguishing system.
  - e. engine fire detection and/or extinguishing system maintenance procedures.
2. N/A
3. Demonstrate the ability to perform at least one of the following—
  - a. check an engine fire detection and/or extinguishing system for proper operation. (Level 2)
  - b. accomplish weight and pressure inspection of an engine fire bottle, and verify hydrostatic inspection date. (Level 2)
  - c. repair an engine fire detector heat sensing loop malfunction. (Level 3)
  - d. check operation of firewall shut-off valve after a fire handle is pulled. (Level 2)
  - e. troubleshoot an engine fire detection or extinguishing system. (Level 2)
  - f. inspect an engine fire detection or extinguishing system. (Level 2)

Required Text(s):

Powerplant Textbook (ASA)	ISBN # 1-56027-547-2
Powerplant Test Study Guide (ASA)	ISBN # 1-56027-572-3
FAR Handbook for AMT (ASA)	ISBN # 1-56027-563-4
AC43.13-1B Acceptable Methods, Practices, & Techniques (ASA)	ISBN # 1-56027-488-3

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Optional Text(s):

Technician Powerplant Textbook (Jeppesen)	ISBN # 0-88487-207-6
Technician Powerplant Workbook (Jeppesen)	ISBN # 0-88487-243-2
AC65-12A Aircraft Mechanics Handbook Powerplant (FAA)	ISBN # 1-56027-024-1

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 Power-plant Section.