Aviation Technology- Maintenance
Standard Course Outline

AVTG 1031 - AIRCRAFT DRAWINGS

Catalog Description: Students learn to use drawings and blueprints, including orthographic projections, schematics, graphs, charts, and pictorial representations, and to sketch repairs and alterations. Clock hours: 6 lecture, 18 shop

Prerequisite: AVTG 1001

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

Student Outcomes/ Course Topics:

REFERENCES: ABS; JSGT; AMT-G.
FAA Standard: *FAA-S-8081-26* 1-2, Changes 2 (9/24/03) & 3 (6/21/04)

By the end of the course, students will:

1. Exhibit knowledge of at least two of the following—
    a. characteristics and/or uses of any of the various types of drawings/blueprints and/or system schematics.
    b. the meaning of any of the lines and symbols commonly used in aircraft sketches/drawings/blueprints.
    c. using charts or graphs.
    d. troubleshooting an aircraft system or component(s) using drawings/blueprints and/or system schematics.
    e. inspection of an aircraft system or component(s) using drawings/blueprints and/or system schematics.
    f. repair or alteration of an aircraft system or component(s) using drawings/blueprints and/or schematics.
    g. use of drawings/blueprints in component fabrication.
    h. terms used in conjunction with aircraft drawings/blueprints and/or system schematics.

2. N/A

3. Demonstrate the ability to perform at least one of the following—
    a. maintenance and/or inspection using drawings/blueprints and/or system schematics. (Level 3)
    b. preventive maintenance using drawings/blueprints and/or schematics. (Level 3)
    c. troubleshooting using drawings/blueprints and/or schematics. (Level 3)
    d. use a control cable tension chart. (Level 3)
    e. use a servicing, limitation, or calculation chart or graph. (Level 3)
    f. draw a sketch of an alteration or repair. (Level 2)
    g. draw a diagram of an electrical circuit or other system, or portion thereof, and explain the drawing. (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.