

Engine Electrical

Date Due	Topic	TEXT
Jan 7,8,9	Review of DC generators and alternators	Powerplant Textbook Chap. 8, pgs 2-19 generators Chap. 8, pgs 21-27 alternators Test
Jan 14,15,16	Motors	Powerplant Textbook Chap. 8, pgs 28-48 Test
Jan 22,23,24	Electrical System Components	Powerplant Textbook Chap. 8, pgs 53-66 AC43.13-1B Chap.11 Sec. 3, pgs 11-11 to 11-13 Test

Engine Inspections

Date Due	Topic	TEXT
Jan 28,29,30	Airworthiness Inspection Criteria	Powerplant Textbook Chap. 13, pgs 1-14 Test
Feb 4,5,6	Reciprocating Engine and Propeller Insp.	Powerplant Textbook Chap. 13, pgs 15-30 Test
Feb 11,12,13	Turbine Engine Inspections	Powerplant Textbook Chap. 13, pgs 31-34 Test
Feb 18 thru Mar 7	Engine Inspections	AC43.13-1B, Chap. 8 Sec. 1 pgs 8-1 to 8-17 Sec. 5 pgs 8-37 to 8-40

Class Information: Aero 4: Spring 2008, Eighteen-Week Course, 17.5 units, Lecture class meets in AE5
 Instructor: Mr. DuRand
 Office Hours: M/T/W 1:05-2:05 in AE7 or by appointment
 School Phone: 638-0318 email: skip.durand@reedleycollege.edu
 Class Hours: Daily, 7:30 am to 1:20 Lab: 7:30 - 10:10 Break: 10:10 - 10:35
 Lecture: 10:35 - 11:50 Break: 11:50 - 12:00
 Lecture: 12:00 - 1:05 Break: 1:05 - 1:20

Holidays: Monday, January 21, 2008 Martin Luther King Jr.
 Friday, February 15, 2008 Lincoln Day
 Monday, February 18, 2008 Washington Day
 Monday - Friday, March 17-22, 2008, Spring Recess

Drop Deadline: January 25, 2008 (see college catalog for details)

Final Exam Date: May 14, 2008

Required Texts: Jeppesen, A&P Technician General Textbook (ISBN 0-88487-203-3)
 Jeppesen, A&P Technician Airframe Textbook (ISBN 0-88487-205-1)
 Jeppesen, A&P Technician General Workbook (ISBN 0-88487-427-3)
 Jeppesen, A&P Technician Airframe Workbook (ISBN 0-88487-2955-5)
 Jeppesen, A&P Technician Powerplant Textbook (ISBN 0-88487-338-2)
 Jeppesen, A&P Technician Powerplant Workbook (ISBN 0-88487-243-2)
 Aircraft Inspection and Repair AC-43.13, 13-1B, 2A (ISBN 0-89100-306-1)
 2008 FAR's for AMT (ISBN 0-88487-472-9) or similar document

Personal Supplies: Safety Glasses & Ear Protection (required as needed in the lab)
 Six-Inch Ruler graduated in 1/32^{ths} (required as needed in the lab)
 Scientific Calculator (recommended)

- Lecture/Lab Policies:
1. Do not enter the Classroom while another class is in progress.
 2. No food or drink is allowed in the Aero classrooms or lab.
 3. The use of any form of tobacco is only permitted outside at the South entrance to the Aero building. Please help keep the area clean.
 4. Always maintain an attitude of safety in the lab.
 5. Always receive proper training before operating equipment that you do not know how to use properly.
 6. Safety glasses must be worn in all areas required.
 7. No open-toed shoes are to be worn in the lab.
 8. If you have special needs as addressed by the Americans with Disabilities Act (ADA), please notify me immediately. Reasonable efforts will be made to accommodate your special needs.

Course Objective: The primary purpose of this course is to meet the Federal Aviation Administration requirements for certification as an Airframe and Powerplant Maintenance Technician.

Course Topics/Outline: See attached Reading Assignment and Exam Schedule.

Grading Basis: Because the Aviation Maintenance Technician Program is both a community college curriculum and a Federal Aviation Administration approved curriculum at the same site, two grading systems are used.

The FAA subject scores are computed as follows: A percent score will be used to compute all graded work where possible. Lab projects will be graded on the basis of airworthiness, safety, ability to follow instructions, and professional approach to each project. When each subject is completed, the instructor will combine all lecture and lab scores in that subject and convert it to a percent score. Wherever possible, lecture and lab scores will be weighted equally. This score is the FAA Subject Score. *Important Note: Each one of the 44 FAA subject scores must be at or above 70% to receive credit toward the Airframe and Powerplant Certificate*

Sample Calculation for each FAA Subject Grade:

	Lecture Total Points Possible	Student Points	Student % Score
Quiz 1	5	3	
Quiz 2	10	6	
Exam 1	30	25	
Exam 2	40	30	
Subtotal	85	64	75.3%
Lab			
Project 150		30	
Project 270		50	
Subtotal	120	80	66.67%