



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2008-2009

(i.e. 2003-2004)

NEXT REVIEW: 2013-2014

(i.e. 2008-2009)

STATUS: A

(A, I, D)

COURSE TITLE: FAR'S Forms & Privileges

COMMON COURSE NUMBER: AMT 1081

CREDIT HOURS: 1

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS: 42

Lecture: 22

Lab: 20

(Voc. Course ONLY)

Clinic:

Other:

PREREQUISITE(S): None

COREQUISITE(S): None

PRE/COREQUISITE(S): None

COURSE DESCRIPTION *(750 characters, maximum):* Familiarizes the student with FAA regulations, advisory circulars, and other government and industry publications, proper terminology and procedures for the execution of log books and major repair and alteration forms, and privileges and limitations as they apply to the certificated mechanic; Student fee charged.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s): Area

General Education Requirements – Associate in Science Degree (AS), meets Area(s): Area

General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s): Area

UNIT TITLES

1. FAA and Manufacturer's Aircraft Maintenance Specifications, Data Sheets, Manuals, and Publications, and Related Federal Aviation Regulations
2. Technical Data
3. Descriptions of Aircraft Condition and Work Performed
4. Required Maintenance Forms, Records and Inspection Reports
5. Mechanic Privileges within the Limitations Prescribed by Federal Air Regulations Part 65



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ASSESSMENT:

Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.

1. **Quizzes, Test, and/or Final Exam (cumulative/comprehensive);**
2. **Selected faculty may assess homework, projects, class participation/attendance, and/or extra credit projects.**
Upon successful completion of this course, the students should be able to locate specific data, use proper terminology and procedures for the execution of log books and major repair and alteration forms, and understand the privileges and limitations that apply to the certified mechanic.

**** Complete the following only if course is seeking general education status ****

GENERAL EDUCATION Competencies and Skills*:

Please highlight in green font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

1. Read with critical comprehension	
2. Speak and listen effectively	
3. Write clearly and coherently	
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental)	
6. Apply problem solving techniques to real-world experiences	
7. Apply methods of scientific inquiry	
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	
9. Demonstrate an understanding of and appreciation for human diversities and commonalities	
10. Collaborate with others to achieve common goals.	
11. Research, synthesize and produce original work	
12. Practice ethical behavior	
13. Demonstrate self-direction and self motivation	
14. Assume responsibility for and understand the impact of personal behaviors on self and society	
15. Contribute to the welfare of the community	

** General Education Competencies and Skills endorsed by '05-'06 General Education Task Force*



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UNITS

Unit 1 F.A.A. and Manufacturer's Aircraft Maintenance Specifications, Data Sheets, Manuals, and Publications, and Related Federal Aviation Regulations

General Outcome:

- 1.0 The student shall:** The students should be able to select and use F.A.A. and manufacturer's aircraft maintenance specifications, data sheets, manuals, and publications, and related federal aviation regulations.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1 Determine the suitability of a propeller for use with a particular engine-airplane combination.
- 1.2 Determine the minimum diameter of a propeller type and model when used with a particular engine.
- 1.3 Locate aircraft leveling and weighing information.
- 1.4 Determine engine/propeller speed ratios.
- 1.5 Describe the instrument markings required on a specified type and model aircraft.
- 1.6 Explain the purpose and applicability of Technical Standard Orders.
- 1.7 Explain the purpose and applicability of Supplemental Type Certificates.
- 1.8 Identify the useful load and empty weight.



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Unit 2 Technical Data

General Outcome:

2.0 The student shall: The students should be able to read technical data.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

2.1 Find specified information in technical reports and manuals



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Unit 3 Descriptions of Aircraft Condition and Work Performed

General Outcome:

3.0 The student shall: The students should be able to write descriptions of aircraft condition and work performed.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1** Describe the repairs made to an aircraft structure.
- 3.2** State aircraft condition based upon inspection.



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Unit 4 Required Maintenance Forms, Records, and Inspection Reports

General Outcome:

- 4.0 **The student shall:** The students should be able to complete required maintenance forms, records and inspection reports.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1 Enter the required information in the permanent maintenance records when a minor repair has been performed.
- 4.2 Prepare and properly dispose of FAA "Form 337."
- 4.3 List the minimum information required to be entered in the maintenance records after maintenance or alteration of aircraft.
- 4.4 Make record entries to indicate compliance with Airworthiness Directives.
- 4.5 Discuss the definition of "time in service" with respect to maintenance records.
- 4.6 List the record requirement for returning aircraft to service after 100-hour inspection.
- 4.7 Describe the requirement for maintaining a permanent record of aircraft maintenance.
- 4.8 Define the definition of "repair" as related to aircraft maintenance.
- 4.9 List the requirements for a permanent maintenance record.



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Unit 5 Mechanic Privileges within the Limitations Prescribed by Federal Air Regulations Part 65

General Outcome:

- 5.0 The student shall:** The students should be able to exercise mechanic privileges within the limitations prescribed by Federal Air Regulations Part 65.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1 Determine the criteria for determining the classification (major, minor, or preventive maintenance) of airframe repairs and alterations.
- 5.2 Determine the criteria for determining the classification (major, minor, or preventive maintenance) of powerplant repairs and alterations.
- 5.3 Determine the criteria for determining the classification (major, minor, or preventive maintenance) of propeller repairs and alterations.
- 5.4 Return an aircraft to service after installation of an engine type other than that for which the aircraft was originally certificated.
- 5.5 Describe the minimum age requirement for issuance of a mechanic certificate.
- 5.6 List the privileges of a mechanic in relation to 100-hour and annual inspections.
- 5.7 Explain the requirements for reporting change of address.
- 5.8 List the duration or effective period of a mechanic certificate.
- 5.9 Discuss the requirements an application must meet for issuance of a mechanic certificate.
- 5.10 Determine the maintenance classification (major repair, minor repair, preventive maintenance) of landing gear tire removal, installation, and repair.



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- 5.11 Determine the maintenance classification (major repair, minor repair, preventive maintenance) of servicing landing gear shock struts.
- 5.12 Determine the repair classification (major repair, minor repair, preventive maintenance) of repairs to steel tubing structures by welding.
- 5.13 Determine the repair classification (major repair, minor repair, preventive maintenance) of replacing the fabric on fabric-covered parts such as wings, fuselates, stabilizers, and control surfaces.
- 5.14 Explain the recency-of-experience requirements for certificated mechanic.
- 5.15 Discuss the privileges of a mechanic regarding return to service of aircraft after major repairs.
- 5.16 Determine the maintenance classification (major repair, minor repair, preventive maintenance) of the replacement of aircraft components with new, rebuilt, or repaired components of similar design.