I. Course Number: AERM 2351

II. Course Title: Aircraft Turbine Engine Overhaul

III. Instructional Time:

- Semester ------ 3 hours
- Lecture -------- 14 hours
- Lab ---------- 70 hours
- Final Test ----- 1 hour
- Total Clock -- 85 hours

IV. Course Description:

Topics address inspection, disassembly, reassembly, and replacement of gas turbine engines, sections, and components and operational troubleshooting and analysis.

V. Course Learning Outcomes:

Overhaul turbine engines; inspect, check, and repair turbine engines; and remove, install, and troubleshoot turbine engines.

VI. Program Objectives:

Level 2 A. Overhaul turbine engine.

Level 3 B. Inspect, check, service, and repair turbine engines and turbine engine installations.

Level 3 C. Install, troubleshoot, and remove turbine engines.
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Powerplant Course Syllabus

VII. Practical Projects:

A. Simulate turbine engine overhaul.
B. Perform maintenance on turbine engines and turbine engine installations.
C. Perform turbine engine removal, troubleshooting, and installation.

VIII. Teaching Methods:

To include lecture, discussion, audio/visual aids, computer based training, hand outs, and reference materials.

IX. Evaluation:

Evaluation methods for this course are as follows:

A. Quizzes: Informal quizzes may be administered periodically to measure student progress and to identify significant learning problems. The quiz type (multiple choice, oral, essay, etc.) and the frequency of administration shall be at the discretion of the instructor. Quiz grades are not used in computing course grades.

B. Practical Projects and Mid-term Tests: At the completion of instruction of an objective, the students performance will be evaluated by a knowledge test and/or a practical project. Mid-term tests grades are averaged with Practical Projects grades.

C. Final Examination: A final exam will be administered at the conclusion of the course and shall be comprehensive of the entire course.

D. Grading: A percentage grading system shall be used and the student's final grade shall be computed as follows:

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical Projects and Mid-term Test</td>
<td>65%</td>
</tr>
<tr>
<td>Final Examination</td>
<td>35%</td>
</tr>
</tbody>
</table>
E. Final percentage grades shall be converted to letter grades as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>59-0</td>
<td>F</td>
</tr>
</tbody>
</table>

X. Tools and Equipment:

Special tools and equipment required for this unit are to be furnished by Coastal Bend College. All hand tools, however, are to be furnished by the individual student and shall be immediately available to the student at the beginning of this course of instruction.

XI. Attendance Policy:

Refer to the Coastal Bend College Airframe & Power Technology Program attendance policy.

XII. Bibliography:

A. Required Text:


B. Supplementary Text:


6. Aircraft Manufacturers Specifications and/or Support Material.