

U.S. Department of
Homeland Security

United States
Coast Guard



Coast Guard Aviation Technician

Airframe and Powerplant Syllabus



U.S. Coast Guard
Aviation Technical Training Center
(02/04)

Table of Contents

- A&P Introduction----- 3
- Coast Guard A&P Syllabus Instructions----- 6
- Coast Guard A&P Syllabus Enrollment Form----- 9
- Line Item Instructions for Coast Guard Personnel----- 10
- FAA Certification Performance Job Tasks----- 25
(CG-G-EAE-2 Form)
- Joint Military Services Airframe and Powerplant Program----- 26
(CG-G-EAE-3 Form)
- Coast Guard A&P Syllabus completion Memorandum----- 35
- For FAA forms 337 and 8610.2 go to ATTC's web site under A&P Syllabus for links.

Program accepted by the Federal Aviation Administration on 26 January 2001
Revised/updated on 02 Feb 2004

U.S. Coast Guard A&P Syllabus

I. Introduction

1. This Airframe and/or Powerplant Syllabus was developed and approved by the FAA and the Joint Services Aviation Maintenance Technician Council (JSAMTC), as an individual voluntary training program to assist authorized members in obtaining their FAA A&P certification. This syllabus is to be used by U.S. Coast Guard military aircraft maintenance personnel and all their supervisors to conduct and document military aviation formal and on-the-job training for the pursuit of FAA Airframe and/or Powerplant (A&P) Certification. This Coast Guard A&P Syllabus includes step-by-step instruction for its completion. Syllabus completion is mandatory to obtain the “Armed Forces Certificate of Eligibility”. This document is required to be presented to the FAA for final testing. The syllabus also discusses the required FAA Final A&P tests, as well as the FAA required oral and practical exams administered by a Designated Mechanic Examiner (DME).

Currently, the A&P Program Manager at ATTC is responsible for reviewing completed syllabuses (CG-G-EAE-2/3) and USMAP is responsible for issuing the Armed Forces Certificate of Eligibility (CG-G-EAE-4). In order to obtain the FAA required Armed Forces Certificate of Eligibility, Coast Guard active duty enlisted personnel **MUST submit a CG A&P Enrollment Form to USMAP. (See Item IV).**

2. **Requesting Information and Changes to the Syllabus.** The JSAMTC and the FAA must approve all changes. The Council is comprised of representatives from each branch of the military service, commercial aviation industry, and the FAA who are required to meet annually. The Coast Guard A&P Program Manager at the Aviation Technical Training Center (ATTC) is responsible for making all approved changes to the CG-G-EAE-3 form for all services, as well as this Syllabus. The CG A&P Program Manager can be reached at (252) 335-6551.
3. **FAR Part 65 Rules.** The A&P Certification can be obtained by one of three methods:
 - A. Practical Experience only: 18 months for either the A or P Certificate; 30 months for the A&P Certificate. Member must pass the computer-based final test, the oral and practical exam.
 - B. Attending a FAR Part 147 two-year A&P School. Testing is done through the school.
 - C. A combined total of 30 months of practical experience, formal training and completion of the Coast Guard A&P Syllabus. The FAA now authorizes military members to use formal training and practical experience. The accumulation of time towards the 18 or 30 months begins when the applicant arrived at the Aviation “A” school for AD, AE, AM; or assigned as an Airman to an air station or AMT/AET “A” School, whichever was first. Member must also pass the computer-based test and the oral and practical exam.
4. **The FAA Certification Performance of Job Tasks (CG-G-EAE-2).** This form is the cover sheet for the CG Syllabus and is the Engineering Officer’s “final stamp” that the member has completed all practical experience and time requirements.
Only the unit’s Engineering Officer is authorized to sign this form.
5. **The Joint Military Services Airframe and Powerplant Program (CG-G-EAE-3).** This form mirrors the educational curriculum taught at an FAA approved Part 147 A&P School. This form has been approved and adopted by the FAA and JSAMTC. All active duty military personnel are required to use this form when applying for certification to the FAA. This form will be used to document an individual’s practical performance of maintenance accomplished on aircraft, as well as formal training received.

6. **A&P Testing.** The FAA Final written test is conducted electronically on computers approved by the FAA. Testing may be done at any authorized “DANTES” computer-testing center for free (implementation of computers at test centers should be in mid 2004), or any FAA testing center for a fee. All required testing fees are at the expense of the member. A grant may be available for the reimbursement of the testing fees through the CG Foundation for active duty military. Contact your unit ESO for possible funding alternatives. The General Test is required and must be taken, even if you are applying for only one certification.

II. Coast Guard A&P Syllabus Applicability

- Grade: Aviation Maintenance Technician (AMT), who attended AMT “A” School, or attended AD, AM, or AE “A” School and **completed** the AMT Cross-Training through NIDA/CEDS (member must present the AWR NIDA/CEDS completion certificate).

Note: AMT NIDA/CEDS Cross-training was the unit provided computer-assisted training program available during the Aviation Workforce Re-structuring of 1998 to April 1999. Members who completed 100% of their cross training received Certificates of Completion. Members who believe they completed the cross training but never received a certificate may contact the A&P Program Manager at ATTC for possible validation.

- Grade: AMT (former AD, AM, or AE), who **did not complete** the AMT Cross-Training through NIDA (**See Disclaimer.**)
- Grade: Aviation Electronics Technician (AVT), E-5 and above (**See Disclaimer.**)

Disclaimer:

- **The A&P Syllabus and the FAA A&P Certification are designed to mirror the job tasks and training associated with the AMT Rating. The AD, AE, or AM, who did not complete the NIDA/CEDS Cross-Training; as well as AST or AET Ratings may utilize the A&P Syllabus.**
- **It is up to each individual to obtain and demonstrate the FAA required knowledge and/or practical experience in obtaining the required signatures.**
- **The Engineering Officer must be presented all course completion certificates before allowing formal training to be used to sign off a job task. Members must present their AWR NIDA/CEDS completion certificate to verify completion of the cross-training.**

1. Engineering Officer Certification (CG-G-EAE-2/3)

- The **Engineering Officer must** ensure the individual has used the FAA-approved certification form (CG-G-EAE-3) to apply for the authorization to test and has a minimum of 18 months for one certification (Airframe or Powerplant), or 30 months for both certifications (Airframe and Powerplant).
- The Engineering Officer is authorized to sign off **all** of the designated open blocks on the CG-EAE-3 form when the member presents the A&P Syllabus Completion Memorandum with an end of test score of 70% or greater. The appropriate practical factors are signed off.
- The Engineering Officer is the unit's final approval authority certifying that all of the individual eligibility requirements are met, and **must sign the applicable blocks on all CG-EAE-2 and CG-EAE-3 forms.**

2. Authorized Personnel to Certify Task Completion

- Certified personnel to sign tasks must be proficient in the subject matter they are signing and be an E-6/WG-10 or above or an A&P certified technician. Individuals who possess an A&P certificate are required to enter their A&P Certification number. **(Only these people can sign off the "Complete FMT/OJT or PQ related line items" as listed/required in the line item instructions).**
- Only these personnel can certify that the member has successfully completed the task at the specified FAA training level. It is **not** necessary for the person certifying to **actually** provide the training. Training may be provided by anyone qualified on the task.
- Use an individual with an A&P certificate to sign off tasks, **if possible.** There are no minimum grade requirements for individuals with an A&P certificate.
- Authorized personnel who **are not** A&P certified are required to enter as much personal information on the back of the Joint Military Services Airframe and Powerplant Program certification sheet (CG-G-EAE-3 page one) as possible for auditing purposes by the Coast Guard and/or FAA.
- All authorized personnel initialing must enter completion dates.

3. Training Records

- All Coast Guard enlisted aviation personnel should keep a copy of the CG-G-EAE-2/3 forms in their training record. A master file of completed CG-G-EAE-2/3 forms will be maintained for 3 years with USMAP. For information contact:
(850) 452-1001 ext. 1751.

III. ATTC Web-Site Contents: <http://www.uscg.mil/systems/attc/index.htm>

1. Coast Guard A&P Syllabus
2. Coast Guard AMT Practical Factors
3. Department of Defense CG-G-EAE-2/3 Form (Army, Navy, Air Force, Marines)
4. FAA Form 337
5. FAA Form 8610-2
6. Links to other armed forces and FAA A&P websites

IV. A&P Syllabus Course Content

1. Introduction
2. Syllabus Instructions
3. CG A&P Syllabus Enrollment Form
4. Line Item Instructions for CG-G-EAE-3 Form
5. CG-G-EAE-2 Form: "FAA Certification Performance of Job Tasks"
6. CG-G-EAE-3 Form: "Joint Military Services Airframe and Powerplant Program"
7. Memorandum of A&P Syllabus Completion

SYLLABUS INSTRUCTIONS

- Step 1:** Access and print a copy of the CG A&P Syllabus, including the CG A&P Syllabus Enrollment Form, utilizing one of the ATTC web sites:
<http://www.uscg.mil/systems/attc/index.htm> or
<http://cgweb.arsc.uscg.mil/attc/index.htm> or USMAP's website at
<http://www.cnet.navy.mil/usmap>
- Step 2:** *Completely* fill out the CG A&P Syllabus Enrollment Form and fax as instructed on the form. (See page 9).
- Step 3:** Obtain and have available your: 1) "A" school Certificate. 2) AWR NIDA/CEDS Certificate or completion verification from the ATTC A&P Program Manager if applicable.
- Step 4:** A key component of your FAA Certification is your understanding of, and the ability to use commercial aviation technical orders, manuals, and instructions. Obtain a copy of the following FAA publications:
- Federal Aviation Regulations Handbook for Aviation Mechanics (FAR's)
 - AC-65-9A A&P Mechanics General Handbook
 - AC-65-12 A&P Mechanics Powerplant Handbook
 - AC-65-15 A&P Mechanics Airframe Handbook
 - AC-43.13 1B & 2B Aircraft Inspection and Repair/Aircraft Alterations
 - Q & A Study Guides for the computer and the oral and practical exams
- Note** All publications, except the FAR's and study guides, are available on the USCG ATIMS CD's. All of the publications are also available for purchase through any A&P commercial publication source.
- Step 5:** Follow the category column 1,2,3 or 4 that applies to your background. Follow the syllabus line item instructions in your column for completing the Subject line task requirements for your particular situation.
- (AST Rating only)** Complete all AMT/AET E5 Performance Qualifications, and the required AMT E-4, AET, and AST Performance Qualifications required by the line item tasks.
- Step 6:** Read and study the line item tasks and subjects that require "successfully passing the Syllabus Final Exam". Through your Education Services Officer (ESO), arrange to take and successfully pass the CG A&P Syllabus Final Exam with a 70% minimum score. Tasks requiring successful completion of the CG A&P Syllabus final test cannot be signed off on the CG-G-EAE-3 form until receipt of your final 70% or greater test score. Obtain the A&P Syllabus Final Exam Completion Memorandum from your ESO and present it to your Engineering Officer. The Engineering Officer is then authorized to sign-off all the applicable open blocks of the **CG-G-EAE-3 Form**. The Syllabus Final Exam questions are obtained directly from the FAA practice test booklets.

Step 7: If applicable, present your AWR NIDA/CEDS Certificate to your Engineering Officer so he/she can sign off all the blocks that the line item instructions list as “ATTC”.

Note: Your EO is the only one authorized to sign off subject requirements that were completed by AWR NIDA/CEDS cross training, or items requiring satisfactory passing the CG A&P Syllabus Final Exam.

Step 8: Review and ensure all of the tasks are signed off on the CG-G-EAE-3 Forms, and have your Engineering Officer review and sign the CG-G-EAE-2 and bottom of all CG-G-EAE-3 forms.

Step 9: Mail a **copy** of your completed and signed CG-G-EAE-2 and -3 forms to the A&P program manager at ATTC for review at the below address. Once the review for errors is complete, the package will be mailed to USMAP to receive your Armed Forces Certificate of Eligibility (the CG-G-EAE-4 that **must** be presented to the FAA). (**Keep** your original forms for safekeeping)

Mail to:

**Commanding Officer
US Coast Guard
C/O A&P Program Manager
Aviation Technical Training Center
Elizabeth City, NC 27909-5003**

Step 10: Completely and accurately fill out 2 copies of the FAA certification form (FAA Form 8610-2) in the A&P syllabus or from <http://www.faa.gov/fsdo/atl/8610-2.pdf>. It's recommended that you actually sign both forms in the presence of the FAA.

Step 11: After completing 30 months of aviation experience (Page 3, Item 3C) and receiving your Armed Forces Certificate of Eligibility from USMAP, present the Certificate and enclosed copies of the FAA Form 8610-2 to the local FAA Office, or an FAA Inspector to receive the FAA Authorization to Test Certificates. (The Armed Forces Certificate of Eligibility, CG-G-EAE-4, holds the same weight as a diploma from a two year Part 147 A&P School in the eyes of the FAA). As per the FAA AFS 300 and 600, no interview will be required

Step 12: Obtain and Pass the computerized FAA General, Airframe, and Powerplant tests with a score of 70% or greater. Testing may take place through any DANTES recognized computer-testing center for free (military), or through any authorized FAA testing center for a fee that is at the members' expense.

Step 13: Obtain and Pass the FAA A&P oral and practical exam within 24 months of receiving your FAA computer testing scores to receive the A&P certification. You will be expected to answer a variety of questions, perform and competently complete a variety of tasks to ensure you have the required knowledge. It is up to the discretion of the Designated Mechanic Examiner (DME) to select the tasks. It is recommended that you obtain a copy of the Oral and Practical Study Guide available through any commercial A&P publication source.

Step 14: Upon passing the Oral and Practical exam, the DME will submit your completed paperwork to the FAA for your A&P Certification.

Note: Additional reference materials can be found at the following web sites:

Army <http://www.eustis.army.mil/>

Air Force <http://www.au.af.mil/au/ccaf/jsamtcc/index.htm>

Navy/Marines <https://www.cnet.navy.mil/usmap/>

FAA <http://www1.faa.gov/>

U.S. COAST GUARD A&P SYLLABUS ENROLLMENT FORM

Name: _____ Rank: _____

SSN: _____ Date Enrolling: _____
(123-45-6789) (MM/DD/YYYY)

Home Address:

Home Phone: _____

Command Address:

OPFAC Number: _____

Work Phone Number: _____

E-Mail Address: _____

Mandatory Requirement: For DOL use only:

Sex: _____ Ethnic Origin: _____ (HS or GED): _____ Education Level: _____

By Checking this box you are indicating that the above
Information is correct to the best of your knowledge. _____
(Engineering Officers Name)

When this Enrollment Form is complete: Fax to Bob Rowland (850-452-1419) to be enrolled in the CG A&P Syllabus Program.

GENERAL CURRICULUM SUBJECTS

Line Item Instructions

1. Select the Category that applies to your background

| Category 1 | Category 2 | Category 3 | Category 4 |
|---|---|---|---|
| Graduated AMT “A” School before Jan 2004 or an AD/AE/AM with CEDS CERT. | Graduated AET “A” School after Jan 2004 | Graduated AVT School or an AD/AM/AE with no CEDS Cert | Graduated AMT “A” School after Jan 2004 |

2. Follow your Category column to determine associated sign-off/ completion requirement for each task. (See syllabus page 5 item 2 for Authorized Sign Off Personnel).

3. Definitions: Formal Maintenance Training (FMT), On The Job Training (OJT), Performance Qualifications (PQ).

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|---|---|---------------------------------------|---------------------------------------|---------------------------------------|
| A1 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| A2 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A3 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| Note: You must be proficient in the use of the Volt/Ohm Meter. | | | | |
| A4 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A5 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| A6 | Read AC-65-9A, Chapter 8, and the Nickel Cadmium Battery Storage Manual, T.O. 8D2-3-1 or applicable publications, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

GENERAL CURRICULUM SUBJECTS (Cont.)

| Tasks | Category 1 | Category 2 | Category 3 | Category 4 |
|--------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| B7 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| B8 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| B9 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| B10 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| C11 | Not required, but the information is testable | | | |
| C12 | Read AC-65-9A, Chapter 3 and successfully pass the syllabus final exam | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| D13 | Read AC-65-9A, Chapter 5 and successfully pass the syllabus final exam. Fabricate flared AN and MS fittings on rigid tubing | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E14 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| E15 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| E16 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| E17 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| E18 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

GENERAL CURRICULUM SUBJECTS (Cont.)

| Tasks | Category 1 | Category 2 | Category 3 | Category 4 |
|--------------|---|---------------------------------------|---------------------------------------|---------------------------------------|
| E19 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| F20 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel |
| F21 | Read AC-65-9A, Chapter 4 and successfully pass the syllabus final exam | | | |
| | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| G22 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| G23 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| H24 | Read AC-65-9A, Chapter 1 and successfully pass the syllabus final exam | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| H25 | Read AC-65-9A, Chapter 1 and successfully pass the syllabus final exam | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| H26 | Read AC-65-9A, Chapter 1 and successfully pass the syllabus final exam | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| H27 | Read AC-65-9A, Chapter 1 and successfully pass the syllabus final exam | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| I28 | Read Federal Aviation Regulations (FAR's) Part 43 and Appendices and successfully pass the syllabus final exam. Fill out FAA Form 337. http://av-info.faa.gov/afsforms/337.pdf | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

GENERAL CURRICULUM SUBJECTS (Cont.)

| Tasks | Category 1 | Category 2 | Category 3 | Category 4 |
|--------------|---|--------------------------------------|--------------------------------------|--------------------------------------|
| I29 | Read Federal Aviation Regulations (FAR's) Part 43 and Appendices and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| J30 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel |
| K31 | Read Federal Aviation Regulations (FAR's), Review FAA Manuals 65-9, 65-12, 65-15 and the FAR's for pertinent data, and successfully pass the syllabus final exam | | | |
| | Authorized Personnel sign or FMT/OJT | Authorized Personnel Sign or FMT/OJT | Authorized Personnel Sign or FMT/OJT | Authorized Personnel Sign or FMT/OJT |
| L32 | Read Federal Aviation Regulations (FAR's) Parts 23, 43, and 65, and successfully pass the syllabus final exam | | | |
| | Authorized Personnel sign or FMT/OJT | Authorized Personnel Sign or FMT/OJT | Authorized Personnel Sign or FMT/OJT | Authorized Personnel Sign or FMT/OJT |

AIRFRAME CURRICULUM SUBJECTS (STRUCTURES)

Line Item Instructions:

1. Select the Category that applies to your background

| Category 1 | Category 2 | Category 3 | Category 4 |
|---|---|---|---|
| Graduated AMT “A” School before Jan 2004 or an AD/AE/AM with CEDS CERT. | Graduated AET “A” School after Jan 2004 | Graduated AVT “A” School or an AD/AM/AE with no CEDS Cert | Graduated AMT “A” School after Jan 2004 |

2. Follow your Category column to determine associated sign-off/ completion requirement for each task. (See syllabus page 5 item 2 for Authorized Sign Off Personnel).

3. Definitions: (FMT)-Formal Maintenance Training, (OJT)-On The Job Training, (PQ)-Performance Qualifications.

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-----------|----------------------------|---------------------------------|---------------------------------|----------------------------|
| A1 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A2 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A3 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A4 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| B5 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| B6 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |

AIRFRAME CURRICULUM SUBJECTS (STRUCTURES)

(Cont.)

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-------------|--|---------------------------------|---------------------------------|---------------------------------|
| B7 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| B8 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| B9 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| B10 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| C11 | Read AC65-15A, Chapter 6 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| D12 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| D13 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| D14 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| D15 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| D16 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| D17 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E18 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

AIRFRAME CURRICULUM SUBJECTS
(SYSTEMS/COMPONENTS)

Line Item Instructions

1. Select the Category that applies to your background

| Category 1 | Category 2 | Category 3 | Category 4 |
|---|---|---|---|
| Graduated AMT “A” School before Jan 2004 or an AD/AE/AM with CEDS CERT. | Graduated AET “A” School after Jan 2004 | Graduated AVT “A” School or an AD/AM/AE with no CEDS Cert | Graduated AMT “A” School after Jan 2004 |

2. Follow your Category column to determine associated sign-off/ completion requirement for each task. (See syllabus page 5 item 2 for Authorized Sign Off Personnel).

3. Definitions: Formal Maintenance Training (FMT), On The Job Training (OJT), Performance Qualifications (PQ).

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|------------|---|---------------------------------|---------------------------------|---------------------------------|
| A19 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| B20 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| B21 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| C22 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| C23 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| D24 | Read AC65-15A, Chapter 12 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

AIRFRAME CURRICULUM SUBJECTS
(SYSTEMS/COMPONENTS)(Cont)

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-------------|---|---------------------------------|---------------------------------|---------------------------------|
| D25 | Read AC-65-15A, Chapter 12 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E26 | Read AC-65-15A, Chapter 13 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E27 | Read AC-65-15A, Chapter 13, FAR's Parts 23, 65, and 91, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E28 | Read AC-65-15A, Chapter 13; Read AC-65-9A, Chapter 6, and successfully pass the syllabus final exam. Other reference: AC-43-13-2B. | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| F29 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| F30 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| F31 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| F32 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| F33 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| F34 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |

AIRFRAME CURRICULUM SUBJECTS
(SYSTEMS/COMPONENTS)(Cont)

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-------------|--|---------------------------------|---------------------------------|---------------------------------|
| G35 | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| G36 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| G37 | ALL: Read AC-65-9A, Chapter 9 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| G38 | ALL: Read AC-65-9A, Chapter 9 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| H39 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| H40 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| I41 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| J42 | ALL: Read AC65A-15A, Chapters 10 and 14, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| J43 | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |

POWERPLANT CURRICULUM SUBJECTS (THEORY/MAINT)

Line Item Instructions

1. Select the Category that applies to your background

| Category 1 | Category 2 | Category 3 | Category 4 |
|---|---|---|---|
| Graduated AMT “A” School before Jan 2004 or an AD/AE/AM with CEDS CERT. | Graduated AET “A” School after Jan 2004 | Graduated AVT “A” School or an AD/AM/AE with no CEDS Cert | Graduated AMT “A” School after Jan 2004 |

2. Follow your Category column to determine associated sign-off/ completion requirement for each task. (See syllabus page 5 item 2 for Authorized Sign Off Personnel).

3. Definitions: Formal Maintenance Training (FMT), On The Job Training (OJT), Performance Qualifications (PQ).

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-----------|--|---------------------------------|---------------------------------|---------------------------------|
| A1 | ALL: Read AC65A-12A, Chapters 08 and 10, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| A2 | ALL: Read AC65A-12A, Chapters 8 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| B3 | ALL: Must be proficient in the use of all types of micrometers | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| B4 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| C5 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

POWERPLANT CURRICULUM SUBJECTS (SYSTEM COMPONENTS)

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| A6 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A7 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| B8 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| C9 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| C10 | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| D11 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| D12 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E13 | ALL: Read AC65A-12A, Chapter 4 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E14 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| E15 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| F16 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

POWERPLANT CURRICULUM SUBJECTS (SYSTEM COMPONENTS)(Cont)

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-------------|---|---------------------------------|---------------------------------|---------------------------------|
| F17 | ALL: Read AC65A-12A, Chapters 3 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| G18 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| H19 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| H20 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| H21 | ALL: Read AC65A-12A, Chapters 3 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| I22 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| J23 | ALL: Read AC65A-12A, Chapters 2 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| J24 | ALL: Read AC65A-12A, Chapters 2 and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| K25 | ALL: Read AC65-12A, Chapter 7, and AC65-15A, Chapter 2, and successfully pass the syllabus final exam. | | | |
| | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |

POWERPLANT CURRICULUM SUBJECTS (SYSTEM COMPONENTS)(Cont)

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-------------|---|---------------------------------------|---------------------------------------|---------------------------------------|
| K26 | ALL: Read AC65-12A, Chapter 7, and AC65-15A, Chapter 2, and successfully pass the syllabus final exam. | | | |
| | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| K27 | ALL: Read AC65-12A, Chapter 7, and AC65-15A, Chapter 2, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| K28 | ALL: Read AC65-12A, Chapter 7, AC65-15A, Chapter 2, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| K29 | ALL: Read AC65-12A, Chapter 7, and AC65-15A, Chapter 2, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| K30 | ALL: Read AC65-12A, Chapter 7, and AC65-15A, Chapter 2, and successfully pass the syllabus final exam. | | | |
| | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| K31 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| L32 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |

AVIATION SAFETY CURRICULUM SUBJECTS

Line Item Instructions

1. Select the Category that applies to your background

| Category 1 | Category 2 | Category 3 | Category 4 |
|---|---|---|---|
| Graduated AMT “A” School before Jan 2004 or an AD/AE/AM with CEDS CERT. | Graduated AET “A” School after Jan 2004 | Graduated AVT “A” School or an AD/AM/AE with no CEDS Cert | Graduated AMT “A” School after Jan 2004 |

2. Follow your Category column to determine associated sign-off/ completion requirement for each task. (See syllabus page 5 item 2 for Authorized Sign Off Personnel).

3. Definitions: Formal Maintenance Training (FMT), On The Job Training (OJT), Performance Qualifications (PQ).

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-----------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| A1 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A2 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A3 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A4 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A5 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A6 | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |

AVIATION SAFETY CURRICULUM SUBJECTS (Cont)

| Task | Category 1 | Category 2 | Category 3 | Category 4 |
|-------------|---------------------------------------|----------------------------------|---------------------------------------|---------------------------------------|
| A7 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel |
| A8 | Authorized Personnel or FMT/OJT | ATTC/ Authorized Personnel | Authorized Personnel or FMT/OJT | Authorized Personnel or FMT/OJT |
| A9 | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel | ATTC/ Authorized Personnel |

NOTES:

Coast Guard and Delta Airlines CBT's are available through your ESO to supplement the FAA's information to expound on specific topics

FAA CERTIFICATION PERFORMANCE OF JOB TASKS

Applicant's Last Name: First Name: MI: Last Four SSN:

| |
|--|
| |
|--|

Military Job Classification:

| |
|--|
| |
|--|

Military Job Classification Description:

| |
|--|
| |
|--|

This document is not complete and cannot be presented to the FAA Flight Standards District Office (FSDO) to gain authorization for testing without the official CG-G-EAE-4 Form, *Certificate of Eligibility*, displaying the certifying agency's signature and raised embossed seal.

Unit Approving Authority:

- Army: Production Control Officer
- Air Force: Aircraft Maintenance Officer
- Navy: Maintenance Officer
- Coast Guard: Engineering Officer
- Marine Corps: Maintenance Officer

I verify that _____ has successfully satisfied the established FAA requirements of practical aircraft maintenance experience for the (Circle one) Airframe, Powerplant, or Airframe and Powerplant Certificates per Title 14, Code of Federal Regulations (CFR), Part 65.77, including a total of _____ months of combined practical experience while performing the duties within the career field of aviation maintenance.

(See above for Unit Approving Authority)

Unit Approving Authority Signature _____ Print Name _____
Unit _____ Date _____

JOINT MILITARY SERVICES AIRFRAME AND POWERPLANT PROGRAM

Applicant's Last Name: **First Name:** **MI:** **Last Four SSN:**

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

NOTES:

1. Proficiency Training Levels.

LEVEL 1 = Know basic facts and principles. Be able to find information, and follow directions and written instructions. Skill demonstration is *not* required.

LEVEL 2 = Know and understand, principles, theories and concepts. Be able to find and interpret information and perform basic operations. A high level of skill is *not* required.

LEVEL 3 = Know, understand and apply facts, principles, theories and concepts. Understand how they relate to the total operation and maintenance of aircraft. Be able to make independent and accurate airworthiness judgments. Perform all operations to a return-to-service standard. A fairly high skill level *is* required.

2. Only an E-6 and above (military) or WG-10 and above (civilian) qualified in the appropriate specialty, or a FAA certificated A&P mechanic can verify completion of a task. (Example: E-6 Propulsion Specialist for Powerplant subject tasks, etc.) If the trainer/certifier possess FAA A&P certification, annotate certificate number in the appropriate block.

3. Subject task blocks that are electronically shaded and initialed/dated or "X'd" indicate task completion by previous occupational training and experience and verified by authorized personnel from the respective service.

Applicant's Name:

Last Four SSN:

| GENERAL CURRICULUM SUBJECTS | | Proficiency LEVEL | Initials | Completion Date |
|---|--|--------------------------|-----------------|------------------------|
| Appendix B | | (Note 1) | | |
| A. Basic Electricity | | | | |
| 1. Calculate and measure capacitance and inductance | | (1) | | |
| 2. Calculate and measure electrical power | | (1) | | |
| 3. Measure voltage, current, resistance, and continuity | | (3) | | |
| 4. Determine the relationship of voltage, current, and resistance in electrical circuits | | (3) | | |
| 5. Read and interpret aircraft electrical circuit diagrams, including solid state devices and logic functions | | (3) | | |
| 6. Inspect and service batteries | | (3) | | |
| B. Aircraft Drawings | | | | |
| 7. Use aircraft drawings, symbols, and system schematics | | (2) | | |
| 8. Draw sketches of repairs and alterations | | (3) | | |
| 9. Use blueprint information | | (3) | | |
| 10. Use graphs and charts | | (3) | | |
| C. Weight and Balance | | | | |
| 11. Weigh aircraft | | (1) | | |
| 12. Perform complete weight and balance check and record data | | (3) | | |
| D. Fluid Lines and Fittings | | | | |
| 13. Fabricate and install rigid and flexible fluid lines and fittings | | (3) | | |
| E. Materials and Processes | | | | |
| 14. Identify and select appropriate non-destructive testing methods | | (1) | | |
| 15. Perform dye penetrant, eddy current, ultrasonic, and magnetic particle inspections | | (2) | | |
| 16. Perform basic heat-treating processes | | (1) | | |
| 17. Identify and select aircraft hardware and materials | | (3) | | |
| 18. Inspect and check welds | | (3) | | |
| 19. Perform precision measurements | | (3) | | |
| F. Ground Operation and Servicing | | | | |
| 20. Start, ground operate, move, service, and secure aircraft and identify typical ground operation hazards | | (2) | | |
| 21. Identify and select fuels | | (2) | | |
| G. Cleaning and Corrosion Control | | | | |
| 22. Identify and select cleaning materials | | (3) | | |
| 23. Inspect, identify, remove, and treat aircraft corrosion and perform aircraft cleaning | | (3) | | |
| H. Mathematics | | | | |
| 24. Extract roots and raise numbers to a given power | | (3) | | |
| 25. Determine areas and volumes of various geometrical shapes | | (3) | | |
| 26. Solve ratio, proportion, and percentage problems | | (3) | | |
| 27. Perform algebraic operations involving addition, subtraction, multiplication, and division of positive and negative numbers | | (3) | | |

| | | | |
|--|-----|---|-----------------|
| Applicant's Name: | | Last Four SSN: | |
| GENERAL CURRICULUM SUBJECTS Appendix B | | Proficiency LEVEL (Note 1) | Initials |
| I. Maintenance Forms and Records | | | |
| 28. Write descriptions of work performed, including aircraft discrepancies and corrective actions using typical aircraft maintenance records | (3) | | |
| 29. Complete required maintenance forms, records, and inspection reports | (3) | | |
| J. Basic Physics | | | |
| 30. Use and understand the principles of simple machines; sound, fluid, and heat dynamics; basic aerodynamics; aircraft structures; and theory of flight | (2) | | |
| K. Maintenance Publications | | | |
| 31. Demonstrate ability to read, comprehend, and apply information contained in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals, publications, and related Federal Aviation Regulations, Airworthiness Directives, and Advisory materials | (3) | | |
| L. Mechanic Privileges and Limitations | | | |
| 32. Understand mechanic privileges within the limitations prescribed by FAR 65 | (3) | | |
| AIRFRAME CURRICULUM SUBJECTS Appendix C | | Proficiency LEVEL (Note 1) | Initials |
| I. AIRFRAME STRUCTURES | | | |
| A. Aircraft Finishes | | | |
| 1. Apply trim, letters, and touchup paint | (1) | | |
| 2. Identify and select aircraft finishing materials | (2) | | |
| 3. Apply finishing materials | (2) | | |
| 4. Inspect finishes and identify defects | (2) | | |
| B. Sheet Metal and Non-Metallic Structures | | | |
| 5. Select, install, and remove special fasteners for metallic, bonded, and composite structures | (2) | | |
| 6. Inspect, test, and repair fiberglass, plastics, honeycomb, composite, and laminated primary and secondary structures | (2) | | |
| 7. Inspect, check, service, and repair windows, doors, and interior furnishings | (2) | | |
| 8. Inspect and repair sheet-metal structures | (3) | | |
| 9. Install conventional rivets | (3) | | |
| 10. Form, lay out, and bend sheet-metal | (3) | | |
| C. Welding | | | |
| 11. Understand the principles of welding: magnesium, titanium, stainless steel, and aluminum | (1) | | |

Applicant's Name:

Last Four SSN:

| AIRFRAME CURRICULUM SUBJECTS Appendix C | Proficiency LEVEL (Note 1) | Initials | Completion Date |
|--|---|-----------------|------------------------|
| D. Assembly and Rigging | | | |
| 12. Rig rotary-wing aircraft | (1) | | |
| 13. Rig fixed-wing aircraft | (1) | | |
| 14. Check alignment of structures | (1) | | |
| 15. Assemble aircraft components, including flight control surfaces | (3) | | |
| 16. Balance, rig and inspect movable primary and secondary flight control surfaces | (3) | | |
| 17. Jack aircraft | (3) | | |
| E. Airframe Inspection | | | |
| 18. Perform airframe conformity and airworthiness inspections | (3) | | |
| II. AIRFRAME SYSTEMS AND COMPONENTS | | | |
| A. Aircraft Landing Gear Systems | | | |
| 19. Inspect, check, service, and repair landing gear, retraction systems, shock struts, brakes, wheels, tires, and steering systems | (3) | | |
| B. Hydraulic and Pneumatic Power Systems | | | |
| 20. Identify and select hydraulic fluids | (3) | | |
| 21. Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems | (3) | | |
| C. Cabin Atmosphere Control Systems | | | |
| 22. Inspect, check, troubleshoot, service, and repair heating, cooling, air-conditioning, and pressurization systems | (2) | | |
| 23. Inspect, check, troubleshoot, service, and repair oxygen systems | (2) | | |
| D. Aircraft Instrument Systems | | | |
| 24. Inspect, check, service, troubleshoot, and repair electronic flight instrument systems and both mechanical and electrical heading, speed, altitude, temperature, pressure, and position indicating systems to include the use of built-in test equipment | (1) | | |
| 25. Install instruments and perform a static pressure system leak test | (2) | | |
| E. Communication and Navigation Systems | | | |
| 26. Inspect, check, and troubleshoot autopilot, servos and approach coupling systems | (1) | | |
| 27. Inspect, check, and service aircraft electronic communication and navigation systems, including VHF, passenger address interphones and static discharge devices, aircraft VOR, ILS, LORAN, radar beacon transponders, flight management computers and GPWS | (1) | | |
| 28. Inspect and repair antenna and electronic equipment installations | (2) | | |

| Applicant's Name: | | Last Four SSN: | |
|--|----------------------------------|----------------|-----------------|
| AIRFRAME CURRICULUM SUBJECTS Appendix C | Proficiency LEVEL (Note 1) | Initials | Completion Date |
| F. Aircraft Fuel Systems | | | |
| 29. Check and service fuel dump systems | (1) | | |
| 30. Perform fuel management, transfer and defueling | (1) | | |
| 31. Inspect, check, and repair pressure fueling systems | (1) | | |
| 32. Inspect and repair fluid quantity indicating systems | (2) | | |
| 33. Troubleshoot, service, and repair fluid pressure and temperature warning systems | (2) | | |
| 34. Inspect, check, service, troubleshoot, and repair aircraft fuel systems | (3) | | |
| G. Aircraft Electrical Systems | | | |
| 35. Repair and inspect aircraft electrical system components; crimp and splice wiring to manufacturers' specifications; and repair pins and sockets of aircraft connectors | (2) | | |
| 36. Install, check, and service airframe electrical wiring, controls, switches, indicators and protective devices | (3) | | |
| 37. Inspect, check, troubleshoot, service, and repair alternating and direct current electrical systems | (3) | | |
| 38. Inspect, check, and troubleshoot constant speed and integrated speed drive generators | (1) | | |
| H. Position and Warning Systems | | | |
| 39. Inspect, check, and service speed and configuration warning systems, electrical brake controls, and anti-skid systems | (1) | | |
| 40. Inspect, check, troubleshoot, and service landing gear position indicating and warning systems | (1) | | |
| I. Ice and Rain Control Systems | | | |
| 41. Inspect, check, troubleshoot, service, and repair airframe ice and rain control systems | (2) | | |
| J. Fire Protection Systems | | | |
| 42. Inspect, check, and service smoke and carbon monoxide detection systems | (1) | | |
| 43. Inspect, check, troubleshoot, and repair aircraft fire detection and extinguishing systems | (3) | | |

Applicant's Name:

Last Four SSN:

| POWERPLANT CURRICULUM SUBJECTS Appendix D | Proficiency LEVEL (Note 1) | Initials | Completion Date |
|--|----------------------------------|----------|-----------------|
| I. POWERPLANT THEORY AND MAINTENANCE | | | |
| A. Reciprocating Engines | | | |
| 1. Troubleshoot, service, and repair reciprocating engines and engine installations | (2) | | |
| 2. Remove and Install reciprocating engines | (2) | | |
| B. Turbine Engines | | | |
| 3. Troubleshoot, service, and repair turbine engines and turbine engine installations | (3) | | |
| 4. Remove and Install turbine engines | (3) | | |
| C. Engine Inspection | | | |
| 5. Perform powerplant conformity and airworthiness inspections | (3) | | |
| II. POWERPLANT SYSTEMS AND COMPONENTS | | | |
| A. Engine Instrument Systems | | | |
| 6. Troubleshoot, service, and repair electrical and mechanical fluid rate-of-flow indicating systems | (2) | | |
| 7. Inspect, check, service, troubleshoot, and repair electrical and mechanical engine temperature, pressure, and R.P.M. indicating systems | (3) | | |
| B. Engine Fire Protection Systems | | | |
| 8. Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems | (3) | | |
| C. Engine Electrical Systems | | | |
| 9. Repair engine electrical system components | (2) | | |
| 10. Install, check, and service engine electrical wiring, controls, switches, indicators, and protective devices | (3) | | |
| D. Engine Lubricating Systems | | | |
| 11. Identify and select lubricants | (2) | | |
| 12. Inspect, check, service, troubleshoot, and repair engine lubrication systems | (3) | | |
| E. Ignition and Starting Systems | | | |
| 13. Inspect, service, troubleshoot, and repair reciprocating and turbine engine ignition systems and components | (2) | | |
| 14. Inspect, service, troubleshoot, and repair turbine engine electrical starting systems | (3) | | |
| 15. Inspect, service, and troubleshoot turbine engine pneumatic starting systems | (1) | | |

Applicant's Name:

Last Four SSN:

| POWERPLANT CURRICULUM SUBJECTS Appendix D | Proficiency LEVEL (Note 1) | Initials | Completion Date |
|--|---|-----------------|------------------------|
| F. Fuel Metering Systems | | | |
| 16. Troubleshoot and adjust turbine engine fuel metering systems and electronic engine fuel controls | (1) | | |
| 17. Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine fuel metering systems | (3) | | |
| G. Engine Fuel Systems | | | |
| 18. Inspect, check, service, troubleshoot, and repair engine fuel systems | (3) | | |
| H. Induction and Airflow Systems | | | |
| 19. Inspect, check, troubleshoot, service, and repair engine ice and rain control systems | (1) | | |
| 20. Inspect, check, troubleshoot, service, and repair heat exchangers, supercharger and turbine engine airflow and temperature control systems | (1) | | |
| 21. Inspect, check, service, and repair carburetor air intake and induction manifolds | (1) | | |
| I. Engine Cooling Systems | | | |
| 22. Inspect, check, troubleshoot, service, and repair engine cooling systems | (1) | | |
| J. Engine Exhaust System Components | | | |
| 23. Inspect, check, troubleshoot, service, and repair engine exhaust systems | (3) | | |
| 24. Troubleshoot and repair engine thrust reverser systems and related components | (1) | | |
| K. Propellers/Rotors | | | |
| 25. Inspect, check, service, and repair propeller/rotor synchronizing and ice control systems | (1) | | |
| 26. Identify and select propeller/rotor lubricants | (2) | | |
| 27. Balance propellers/rotor | (1) | | |
| 28. Repair propeller/rotor control system components | (2) | | |
| 29. Inspect, service, and repair propellers/rotors and propeller/rotor governing systems | (2) | | |
| 30. Install, troubleshoot, and remove propellers/rotors | (3) | | |
| 31. Repair aluminum alloy blades | (2) | | |
| L. Auxiliary Power Units | | | |
| 32. Inspect, check, service and troubleshoot turbine-driven auxiliary power units | (2) | | |

Applicant's Name:

Last Four SSN:

| AVIATION SAFETY CURRICULUM SUBJECTS | Proficiency LEVEL (Note 1) | Initials | Completion Date |
|---|----------------------------------|----------|-----------------|
| | | | |
| A. Aviation Safety | | | |
| 1. Fuels, lubricants, or hydraulic fluids | (1) | | |
| 2. Flammable cements, rosins, sealants, paints and thinners | (1) | | |
| 3. Fluids under pressure | (1) | | |
| 4. Compressed gasses, including oxygen | (1) | | |
| 5. Batteries | (1) | | |
| 6. Aviation ordnance and pyrotechnics | (1) | | |
| 7. Electrical and electronic circuits | (1) | | |
| 8. Operating radio transmitters and radar systems | (1) | | |
| 9. Hazardous noise sources | (1) | | |



MEMORANDUM

Subject: A&P SYLLABUS COMPLETION

Date:

From: Education Officer

Reply to
Attn. of:

To: Engineering Officer (Certified A&P Technician for Civilians)

Ref: (a) Coast Guard A&P Syllabus

1. The below named person has successfully completed and passed the CG A&P Syllabus final exam with a score of 70% or greater.
2. In accordance with the above references, you are hereby authorized to sign any and all blocks on the CG-G-EAE-3 form pertaining to the completion of the CG A&P Syllabus. See instructions on the last page of the CG-G-EAE-2 (2B) form.
3. A copy of this Memorandum will be placed in the member's training record.

Member's Name _____ SSN _____

Education Officer _____ Date _____

Copy: Training Record
Member