# AMT General I Course No. 40431 Credit: 0.5

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| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes: **Aviation Maintenance and Operations (47.0607) - Maintenance and Avionics Strand**

Course Description: This course develops correct safety practices, comprehensive knowledge, and technical skills required to perform aviation maintenance procedures that align with the current Airmen Certification Standards.

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: 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 diredtives, and advisory material.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Identify privileges and limitations of a mechanic certificate. |  |
| 1.2 | Explain maintenance record entry for approval for return to service after maintenance, alterations, & inspections |  |
| 1.3 | Identify the purpose and use of FAA forms (e.g., FAA Forms 337, 8010-4, 8100-2, 8130-3). |  |
| 1.4 | Describe maintenance record entry for approval for return to service after inspection. |  |
| 1.5 | Identify the purpose and use of FAA forms (e.g., FAA Forms 337, 8010-4, 8100-2, 8130-3). |  |
| 1.6 | Explain criteria and responsibility for determining whether a repair or alteration is major or minor. Utlizing proper maintenance terminology |  |
| 1.7 | Identify the regulatory framework, including general subject matter of the parts of 14 CFR relevant to aircraft maintenance and mechanics.Including aircraft specifications, TCDS, Advisory Ciculars(AC), and airworthness directives(AD) |  |
| 1.8 | Identify manufacturer publications, including maintenance manuals, service bulletins, maintenance alerts, and master minimum equipment lists. |  |
| 1.9 | Identify FAA databases and resources available, including TCDSs and supplemental type certificates. |  |
| 1.10 | Idenfity compliance requirements for manufacturer-specified methods, techniques, and practices.Including compliance requirements for manufacturer-specified maintenance and inspection intervals. |  |
| 1.11 | Idenfity FAA-approved maintenance data, including maintenance manuals and other methods, techniques, and practices acceptable by the administrator. |  |
| 1.12 | Explain the difference between approved data and acceptable data, and when each is required. |  |
| 1.13 | Idenfity FAA-approved airworthiness limitations. |  |
| 1.14 | Describe alert, caution, and warning indications; and the basic definition of warnings, cautions, and notes that are used in maintenance and operating manuals. |  |

## Benchmark 2: Identify and relate to human factors as it applies to aviation.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Idenfity safety culture and organizational factors. |  |
| 2.2 | Idenfity human error principles and types of human errors |  |
| 2.3 | Describe event investigation, shift, and turnover |  |
| 2.4 | Idenfity human performance, limitations, physical environment, social environmnet |  |
| 2.5 | Explain communication/reporting of hazards and the conditions/preconditions for unsafe acts |  |
| 2.6 | Define teamwork,leadership, professionlism, and integrity |  |

## Benchmark 3: accurately Use blueprint information.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Identify and explain repair or alteration of an aircraft system or component(s) using drawings, blueprints, or system schematics to determine whether it conforms to its type design. |  |
| 3.2 | Describe inspection of an aircraft system or component(s) using drawings, blueprints, or system schematics. |  |

## Benchmark 4: Use aircraft drawings, symbols, and system schematics.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Identify drawings, blueprints, sketches, charts, graphs, and system schematics, including commonly used lines, symbols, and terminology. |  |
| 4.2 | Define terms used in conjunction with aircraft drawings, blueprints, or system schematics. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

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