



## Articulation Agreement Course Competencies and Provisions

<b>AMT 150 Aviation Maintenance General</b>	<b>4-23 Credits</b>
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This course covers the theory and application of aircraft drawings; function of weight and balance control; operation and cleaning of aircraft; identification and application of aircraft materials; the use of maintenance forms and publications in the aviation industry. This course is approved under FAA Part 147.

### PROVISIONS

1. This course can be used for requirements in the BBCC Aviation Maintenance Technology Program.
2. Successful completion of YV Tech's AMT course must be verified in writing by the YV Tech instructor. Verification must state the following:
  - Student is proficient in areas listed in 14 CFR (Civil Code of Federal Regulations) Part 147 Appendix B, General Curriculum Subjects
  - Student received a minimum of 70% or better in the competency categories (see attached).
3. Student receives a signed 14 CFR Part 147 Record of Training (ROT). See attached.
4. Student must complete the BBCC AMT 150 and MTH 090 entrance examination with a score of 70% or higher. Credits will be awarded based on the attached Record of Training.
5. All required Tech Prep forms must be sent to BBCC **within 30 days** of high school course completion.
6. Teachers must assign student grades and credits **within 30 days** of high school course completion.

### COMPETENCIES FOR YAKIMA SKILL CENTER

AMT 090 3 Credits	<b>A.1 Basic Electricity AC</b> <ol style="list-style-type: none"> <li>1. Calculate and measure capacitance and inductance</li> <li>2. Calculate and measure electrical power.</li> <li>3. Measure voltage, current, resistance, and continuity</li> <li>4. Read and interpret aircraft electrical circuits</li> <li>5. Read and interpret aircraft electrical circuit diagrams, including solid state devices and logic functions</li> </ol>
AMT 090 2 Credits	<b>A.2 Basic Electricity DC</b> <ol style="list-style-type: none"> <li>6. Calculate and measure capacitance and inductance</li> <li>7. Calculate and measure electrical power.</li> <li>8. Measure voltage, current, resistance, and continuity</li> <li>9. Read and interpret aircraft electrical circuits</li> <li>10. Read and interpret aircraft electrical circuit diagrams, including solid state devices and logic functions</li> <li>11. Inspect and service batteries</li> </ol>
AMT 100 1 Credit	<b>B. B. Aircraft Drawings</b> <ol style="list-style-type: none"> <li>12. Use aircraft drawings, symbols, and system schematics</li> <li>13. Draw sketches of repairs and alterations</li> <li>14. Use blueprint information</li> <li>15. Use graphs and charts</li> </ol>

AMT 100 1 Credit	<b>C. C. Weight and balance</b> 16. Weigh the aircraft 17. Perform complete weight-and-balance check and record data
AMT 100 1 Credit	<b>D. D. Fluid lines and Fittings</b> 18. Fabricate and install rigid and flexible fluid lines and fittings
AMT 100 6 Credits	<b>E. E. Materials and processes</b> 19. Identify and select appropriate non-destructive testing methods 20. Perform dye penetrant eddy current ultrasonic and magnetic particle inspections 21. Perform basic heat-testing processes 22. Identify and select aircraft hardware and materials 23. Inspect and check welds 24. Perform precision measurements
AMT 100 2 Credits	<b>F. F. Ground Operation and Servicing</b> 25. Start ground operate move service and secure aircraft and identify typical ground operation hazards 26. Identify and select fuels
AMT 100 2 Credits	<b>G. Cleaning and Corrosion Control</b> 27. Identify and select cleaning materials 28. Inspect identify, remove, and treat aircraft corrosion and perform aircraft cleaning
AMT 100 1 Credit	<b>H. Maintenance Forms and Records</b> 29. Write descriptions of work performed including aircraft discrepancies and corrective actions using typical aircraft maintenance records 30. Complete required maintenance forms, records and inspection reports
AMT 100 2 Credits	<b>I. J. Basic Physics</b> 31. Use and understand the principles of simple machines: sound, fluid and heat dynamics: basic aerodynamics: aircraft structures: and theory of flight
AMT 100 1 Credit	<b>J. Maintenance Publications</b> 32. Demonstrate ability to read, comprehend, and apply information contained in FAA and manufactures aircraft maintenance specifications, data sheets, manuals, publication and related Federal Aviation Regulations. Airworthiness Directives, and Advisory material 33. Read technical data
AMT 100 1 Credit	<b>K. Mechanic Privileges and Limitations</b> 34. Exercise mechanic privileges within the limitations prescribed by Part 65 of this chapter