

# Aviation Maintenance Technician

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# Aviation Maintenance Technician

*Available at: Laurel*

## COURSES

### Aviation\*

In this first course, students apply knowledge of aviation theory and navigation to flight performance and planning. Students will apply principles of simple machines and fluid mechanics to aircraft operations. Identification of aircraft engines and airframe related systems will be emphasized. Weather theories and concepts are used to interpret weather-briefing documents. Additionally, students will distinguish among airport environments and understand rules, regulations and orders relevant to the airport industry.

### Aviation Ground Maintenance\*

Students will apply knowledge of aircraft ground handling safety procedures to aviation maintenance. Students will start, ground operate, service, and secure aircraft. Students will perform aircraft maintenance including detecting, identifying, removal, and treating of various types of corrosion found on ferrous and non-ferrous metals. In addition, students will identify methods of cleaning aircraft and aircraft components. The course content also focuses on developing communication, leadership, human relations and employability skills; and safe, efficient work practices.

### Aviation Airframe

Students will inspect, repair, and refinish aircraft airframes and external components. Students will rig rotary and fixed-wing aircraft and evaluate and repair sheet metal and nonmetallic structures. Students will form, lay out, bend and join metal airframe components using welding processes, rivets and fasteners. Students will inspect, repair and assemble wooden, metal, aluminum, fiberglass and composite components. Students will inspect and repair external finishes including surface preparation and refinishing.

### Aircraft Electrical Systems

Students will learn the principles of avionics and practical application of AC/DC electrical circuits with an emphasis on airborne installations. Students will learn power calculations and the relationship of voltage, current, and resistance. Students will inspect, repair, and install instrument, communication and navigation systems. Additionally, students will evaluate and service airframe electrical systems including position, warning, hazard control, ignition systems.

*\*These courses are eligible for college credit under the Career-Technical Assurance Guide (CTAG.)*

*For more information about what CTAG is: [ohiohighered.org/transfer/ct2/earning-college-credit](http://ohiohighered.org/transfer/ct2/earning-college-credit)*

*To learn what credit is currently available at Ohio colleges and universities: [transfercredit.ohio.gov/pg\\_9?9915099094718](http://transfercredit.ohio.gov/pg_9?9915099094718)*

## CREDENTIALS YOU CAN EARN

- Federal Aviation Administration Airframe Mechanic License
- OSHA 10 –General Industry
- CPR/First Aid

## INSTRUCTORS

- Laurel Oaks: Scott Pembleton – [pembletons@greatoaks.com](mailto:pembletons@greatoaks.com)