

# AEROSPACE MANUFACTURING TECHNOLOGY

---

The Aerospace Manufacturing Technology program provides classroom and hands-on training that allow students to develop the knowledge and skills to successfully perform the tasks required of an entry-level Aerospace Manufacturing Technician.

The curriculum was designed through collaboration with the aerospace manufacturing industry to offer students the in-depth task analysis required for transition into careers as Aerospace Manufacturing Technicians, with content and courses mapped directly to expected job performance.

Students take courses in electrical and mechanical assembly and practice the skills and processes applied by manufacturing technicians. They also take classes in surface preparation, fabrication, and in pneumatic, hydraulic, and propellant systems, in addition to being introduced to the welding processes used in aerospace manufacturing.

## **The Student Learning Outcomes for this program are:**

- a. Students will be able to evaluate safety concerns and practice using appropriate PPE required to stay safe.
- b. Students will be able to analyze how different spacecraft systems work together to achieve mission success.
- c. Students will be able to construct mechanical installations using various tools.
- d. Students will understand electrical theory and be able to apply theory to practice.
- e. Students will understand how materials behave and practice processes that manipulate material characteristics.
- f. Students will be able to inspect & measure mechanical and electrical components with tight tolerances.

## **Available programs in Aerospace Manufacturing Technology:**

- **Certificate of Technical Studies** in Aerospace Manufacturing Technology consisting of 24 hours of mainly electrical and mechanical skills training.
- **Technical Diploma** in Aerospace Manufacturing Technology consisting of 45 hours of coursework.
- **Associate of Applied Science** in Aerospace Manufacturing Technology consisting of 60 hours of coursework.

Occupational Outlook lists median income for Aerospace manufacturing technicians at \$65,730.

## **Certificates and Degrees**

- Aerospace Manufacturing Technology, Certificate of Technical Studies
- Aerospace Manufacturing Technology, Technical Diploma
- Aerospace Manufacturing Technology, Associate of Applied Science