



Career & Technical Education (CTE)

Manufacturing Technology



www.moboces.org
(315) 361-5700



★ Overview

Manufacturing, in its broadest sense, is the process of converting raw materials into useful products. In this program, students will learn the processes in which items are manufactured. This will include product design, the selection of the raw materials, and the sequence through which the product will be manufactured. Students in this program will participate in hands-on, project-based learning that will provide them with the fundamental building blocks to work in the manufacturing industry. Students who complete the two-year course will have the opportunity to receive the Certified Production Technician (CPT) credential and acceptance into local pre-apprenticeship programs.

★ Units of Study

- Safety, Tools and Equipment
- Basic Machining
- Basic Welding
- Basic Electrical Wiring
- Automated Computer Control Processes
- Manufacturing Processes & Production
- Quality Practices and Precision Measurement
- Maintenance Awareness
- Basic Blueprint Reading
- Robotics
- Basic CAD

★ Career Options

- Aircraft Mechanic
- Quality Technician
- CNC Machinist
- Mechanical Technician
- Production Technician
- Assembler/Assembly Supervisor



★ Course Credits*

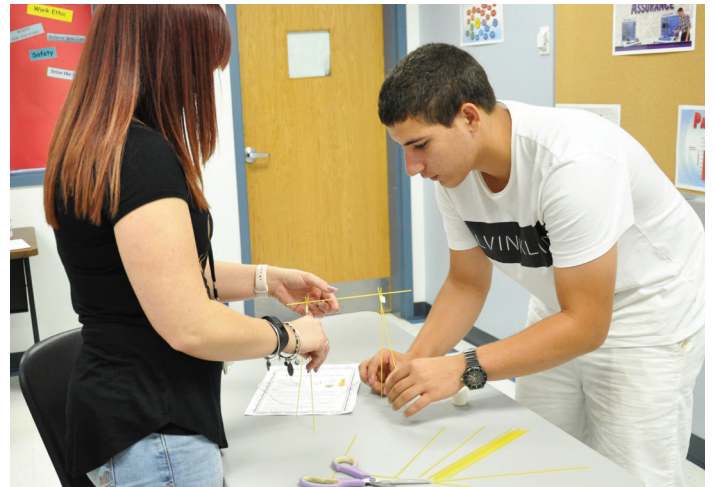
With the completion of the 2-year program, a student would earn a total of 7.5 credits:

- 3 Units of CTE
- 1 Unit each of English 12, Math, and Science
- 1 Unit of Government and Economics
- .5 Unit of Career and Financial Management

★ Equipment Needed

- Steel toe work boots
- Composition notebook
- 3-ring binder

*Pending Program Approval



★ Class Format

Classroom instruction, hands-on projects, internships

★ Features and Benefits of CTE

- **Work-Based Learning:** Internship experiences with local business partners provide students with employment connections and networking opportunities.
- **Technical Endorsement:** Students may earn a Technical Endorsement to their Regents Diploma by passing a nationally recognized industry exam.*
- **Industry Credentials:** Students may gain industry credentials by earning professional certifications, licenses, and other credentials through CTE courses.

★ Leadership Opportunities through CTE

- Regional, State and National competitions
- National Technical Honor Society
- SkillsUSA

★ College Articulations/Industry Connections

- Lincoln Technical Institute
- Mohawk Valley Community College
- SUNY Canton

★ More Information

- 10th Grade Visitor Program - Sign up through your school's Guidance Office.
- Visit during CTE's open houses and college fairs.
- See all the CTE educational opportunities and events online at www.moboces.org.