

# 2024-2025 TTC Catalog - Manufacturing and Maintenance

TTC's Division of Manufacturing and Maintenance provides programs addressing the needs of the advanced manufacturing and the building and automotive maintenance industries. Also, the division satisfies the need for trained aerospace workers in the fields of aircraft maintenance, aircraft avionics and aircraft manufacturing.

Not only are jobs in these sectors considered high demand, they are also high wage positions. Associate degrees and certificates are offered in the areas of Automotive technology, Machine Tool technology, Industrial Maintenance, Welding technology and Air Conditioning and Refrigeration Mechanics. Students interested in any of the division's programs should enjoy learning how machines operate and creating components from drawings, and should have a curious and logical mind. Students will learn from experienced professionals in an industrial environment where hands-on skill development and safety are emphasized.

The Aircraft Maintenance programs are designed to lead toward Federal Aviation Administration (FAA) licensing or certification for airframe and powerplant while the Avionics Maintenance program is designed to lead toward Federal Communications Commission (FCC) and National Center for Aerospace and Transportation Technologies (NCATT) certification. Both programs offer either an associate degree or certificates that will lead toward certification by their respective certifying agencies. Classes for the Aircraft Assembly program are offered as a two-semester certificate program. Students may enter any program at the start of any semester upon approval of an academic advisor.

## Associate Degree

Aircraft Maintenance Technology

General Technology - Air Conditioning and Refrigeration Mechanics

General Technology - Automotive Technology

General Technology - Avionics Maintenance Technology

General Technology - Industrial Maintenance

General Technology - Machine Tool Technology

General Technology - Marine Engineering Technology

General Technology - Welding

# **Certificate**

3D Printing Additive Manufacturing

Advanced Air Conditioning and Refrigeration Mechanics

Advanced CNC Operations

Air Conditioning - Refrigeration Mechanics

Aircraft Assembly Technology

Aircraft Maintenance Airframe

Aircraft Maintenance General

Aircraft Maintenance Powerplant

Automotive Servicing

Avionics Maintenance Technology

Basic CNC Operations

Basic Industrial Work Skills

Commercial and Industrial ACR Systems

Commercial Truck Driving

Computer Numeric Control Machinist

Facilities Maintenance

Gas Metal Arc Welding Fundamentals

Industrial Mechanic

Introduction to Arc Welding

Technology Core

Welding Gas Metal Arc and Flux Cored Arc

Welding Gas Tungsten Arc

Welding Shielded Metal Arc