

MANUFACTURING ENGINEERING TECHNICIAN – CERTIFICATE OF ACHIEVEMENT

Top Code:

0924.00

The Manufacturing Engineering Technician program is designed to prepare students for entry-level careers such as machinists, tool and die makers, computer numerical control (CNC) operators, CNC programmers, and aerospace and mechanical technicians in several manufacturing and engineering areas. The program exposes students to a broad range of technical skills that provide a practical education and prepares students for the modern manufacturing world.

A Certificate of Achievement is awarded upon completion of all required courses with a grade of C or better.

Program Outcomes

- Demonstrate skills in blueprint reading, machining processes, and related concepts including geometric dimension and tolerancing systems.
- Utilize G-code programs to automated software programs (Mastercam) for CNC programming of 2- and 3-axis machines.
- Apply the basics of manufacturing, metal machining, and fabrication processes to mechanical designs.

Requirements for the Certificate of Achievement

Code	Title	Units
DT 008A	INTRODUCTION TO DIGITAL DESIGN AND FABRICATION	3
DT 150	READING ENGINEERING DRAWINGS	1
DT 230	COMPUTER-AIDED MANUFACTURING	3
DT 240	GEOMETRIC DIMENSIONING AND TOLERANCING	2
MACH 101	BEGINNING METALWORKING SKILLS	3
Total Units		12

Visit the Program Mapper (<https://pasadena-city.programmapper.ws/academics/interest-clusters/35afad1b-8598-4ecf-a320-0ed4834a7df8/programs/d87e4fdf-97d4-6e55-6e44-a1513d50e0f4/>) for a suggested sequence of courses.

This Certificate of Achievement is not eligible as a major for an Associate Degree.