

## 2024-25 ACADEMIC PROGRAMS

### ADVANCED MANUFACTURING (CNC) – OPERATION TECHNICIAN (CTMTOT)

#### Certificate

In this program, students learn to setup and operate CNC machine tools with an introduction to programming. They learn how to use basic measurement tools and read blueprints. This certificate will highlight the fundamentals of manufacturing and programming. Students completing this certificate will be able to safely perform basic skills within a manufacturing facility, including basic part manufacturing as well as the setup and operation of CNC machine tools to manufacture basic parts. Students will also be able to perform basic inspections using appropriate measurement tools.

Students with technology interests who enjoy working with their hands like gaming, manipulating code, robotics, 3D printing are suited for this line of work.

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#### Description

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#### Course Requirements

##### Major/Area Requirements

Class	Title	Minimum Credits
MEC 100	Materials and Processes	3
MEC 101	Blueprint Reading for Manufacturing	2
NCT 100	Foundation Concepts for Manufacturing (CNC)	3
NCT 101	Introduction to Computerized Machining (CNC) - I	2
NCT 110	Introduction to Computerized Machining (CNC) - II	2
NCT 120	Introduction to 2D CAD CAM Programming and Applications	2
NCT 121	Manual Programming and NC Tool Operation	4
Total		18

#### Total Credits Required: 18

Accurate as of 07/12/2024 Information is subject to change without notice.