

# INTRODUCTION TO CNC OPERATIONS CERTIFICATE

**Program Number:** 61-444-3

Certificate

**Campus:** West Bend

This program is **not** eligible for financial aid

Moraine Park's Introduction to CNC (Computer Numerically Controlled) Operations Certificate is designed for individuals who have limited or no manufacturing background in the operation of CNC equipment.

## About the Program

CNC equipment operators handle the initial startup of a program, maintain quality control of the parts being machined and troubleshoot CNC machine tools when necessary. This certificate covers how to operate machine tools, CNC setup, CNC operation, industrial trade's math, blueprint reading and how to use measuring equipment.

## What You'll Learn

Operators run computer-controlled machine tools that produce highly precise parts used in many of the products we use on a daily basis. Duties of an operator will vary from operating the machine to setup of cutting tools, fixtures, programs, and producing the complete part. The courses in this certificate can be directly transferred into Moraine Park's CNC/Tool and Die Technologies (<https://catalog.morainepark.edu/programs/cnc-tool-die-technologies/>) technical diploma program.

## Transfer Opportunities

Earn credits at MPTC and transfer to a four-year college to earn your bachelor's degree.

Visit the Transfer Opportunities (<https://www.morainepark.edu/academics/transfer-information/transfer-to-a-four-year-college/>) page for more information on credit transfer agreements between Moraine Park and four-year colleges, both public and private.

## Admission Process

Standard Admissions (<http://www.morainepark.edu/admissions/new-student/how-to-apply-for-admissions/>) steps details

## Credit for Prior Learning

Earn college credit outside the classroom through Moraine Park's Credit for Prior Learning (CPL) opportunities. Credit opportunities are available for:

- Previous college coursework from prior institutions
- Military training and experience
- Passing of MPTC or national exams
- Skills or knowledge developed on the job or through other life experiences

Visit MPTC's Credit for Prior Learning (<https://www.morainepark.edu/academics/transfer-information/credit-for-prior-learning/>) page for more information.

## Approximate Costs

- \$141.00 per credit (resident)
- \$211.50 per credit (out-of-state resident)
- Online students are not charged out-of-state fees.
- Please refer to the MPTC Student Handbook (<http://www.morainepark.edu/studenthandbook/>) for additional enrollment fee information.

## Course Requirements

Course	Title	Credits
<b>Semester 1</b>		
439-399	2D CAD Mold and Die Print Reading	2
444-350	Basic Programming	3
444-365	CNC Machining Center Operation	2
804-360	Occupational Mathematics 1	2
<b>Credits</b>		<b>9</b>
<b>Total Credits</b>		<b>9</b>

## Pathways

- CNC/Tool and Die Technologies Technical Diploma (<https://catalog.morainepark.edu/programs/cnc-tool-and-die-technologies/>)
  - CNC Set-up/Operator Certificate (<https://catalog.morainepark.edu/programs/cnc-setup-operator-certificate/>)
  - Introduction to CNC Operations Certificate (p. 1)

Earn certificates and a technical diploma along this pathway. Start with some courses for entry-level employment, and continue with additional courses for higher wages and job advancement.

## Career Opportunities

- Entry level CNC Operator
- Machinist
- Machine Tool Setter