

CNC MACHINE OPERATOR/PROGRAMMER



One-Year Embedded Technical Diploma 31-444-1

The CNC Machine Operator/Programmer Embedded Technical Diploma (34 credits) prepares learners for CNC machine setups and operations.

With a flex lab format, individuals can attend when it is convenient for them. Students can also take advantage of the nationally recognized National Institute of Manufacturing Standards (NIMS) certification process as they complete the program.

Upon successful completion of this technical diploma, students will be able to:

- Apply basic safety practices in the machine shop
- Interpret industrial/engineering drawings
- Apply precision measuring methods to part inspection
- Perform advanced machine tool equipment set-up and operation

Semester 1		Credits
421-310	Print Reading for Manufacturing	1
422-310	Metrology Fundamentals	1
420-312	Lathe Fundamentals 1	1
420-310	Milling Fundamentals 1	1
444-332	Layout & Benchwork	1
420-314	Semi-Precision Operations	1
444-336	CNC Lathe Fundamentals	1
444-335	CNC Mill Fundamentals	1
444-340	CNC Turning Operations 1	1
444-344	CNC Milling Operations 1	1
420-315	Turning Setup 1	1
420-317	Milling Setup 1	1
444-338	Manufacturing Support Systems	1
444-346	CNC Milling Programming 1	1
444-342	CNC Turning Programming 1	1

804-315	Trade Math	1
Credits		16
Semester 2		
444-331	Blueprint Reading 2	1
422-311	Metrology Inspection	1
420-313	Lathe Fundamentals 2	1
420-311	Milling Fundamentals 2	1
420-316	Turning Setup 2	1
420-318	Milling Setup 2	1
444-334	CNC G-Code Programming for Lathes	1
444-333	CNC G-Code Programming for Mills	1
422-312	Metrology Gauging/SPC	1
444-341	CNC Turning Operations 2	1
444-345	CNC Milling Operations 2	1
606-310	GD&T Interpretations	1
420-325	Machining Calculations	1
420-320	Fixtures and Tooling - Mills	1
420-321	Fixtures and Tooling - Lathes	1
444-356	CNC Internship	1
Credits		16
Total Credits		32

General Education Courses in the Program:

Code	Title	Credits
804-315	Trade Math	1