CNC MACHINING TECHNOLOGY DIPLOMA

Entry Time

Fall

Award

Diploma
1 year (3 terms including summer)

Computer Numerical Control (CNC) machines manufacture precision parts and products. They often complete many set-ups for short runs to meet just-in-time delivery demands. People who enter this field must be flexible and have basic knowledge of machine tool CNC.

Students program, edit, set up and operate CNC lathes and mills, as well as study quality control methods known as statistical process control. They also learn special quality control equipment, such as coordinate measuring machines, and advanced automated production methods.

This diploma is eligible for state and federal financial aid.

Diploma Requirements

Term 1		
Fall		**Credit Hours**
MAT-735	Machinist Mathematics I	2
MFG-120	Mach Trade Printreading I	1
MFG-128	Measurement, Matls and Safety	2
MFG-129	JobPlan,Benchwork,Layout-NIMS	2
MFG-297	Milling Machine Operations (NIMS)	3
MFG-385	Engine Lathe Operations(NIMS)	5
	Term Totals:	**15**
Term 2		
Spring		
MAT-736	Machinist Mathematics II	1
MFG-130	Machine Trade Printreading II	1
MFG-173	CNC Mill Operator-NIMS	2
MFG-174	CNC Lathe Operator-NIMS	2
MFG-298	Surface Grinding Oper-NIMS	2
MFG-332	CNC Mill Program & Setup-NIMS	3
MFG-334	CNC Lathe Program/Setup-NIMS	3
	Term Totals:	**14**
Term 3		
Summer		
MFG-388	Mfg Sheetmetal Practices	5
MFG-420	Jig and Fixture Design	2
	Term Totals:	**7**
	Program Totals:	**36**