Machine Tool Technology, Basic

Certificate (C)

Description: This certificate program develops student skills in the operation of lathes, milling machines, and surface grinders. The student will also become proficient in applied mathematics and blueprint reading and will understand the theory of machine shop practices. There will also be an introduction to the operation of Computer Numerical Control (CNC) equipment. Completion of this certificate will qualify the student for entry-level employment in basic machining and manufacturing operations.

Program Requirements		**Credits: 25**
APP 106M	Industrial Safety (1/1) [A]	
MET 200	Material Science (3/4) [A]	
MTH 110	Technical Math I (3/4) [A]	
MFG 101	Machining Processes I (4/6) [A]	
MFG 102	Machining Processes II (4/6) [A]	
MFG 120	Print Interpretation & Processes (3/4) [A]	
MFG 201	CNC I (4/6) [A]	
MFG 204	Computer-Aided Manufacturing (3/4) [A]	

Minimum 25 Credit Hours/35 Contact Hours

Notes:
[A] Included in occupational specialty.
GPA of 2.0 or higher must be maintained in occupational specialty courses

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Certificate (C)
Suggested Sequence of Courses

Year 1 (Fall Semester)		**Credits: 13**
MET 200	Material Science (3/4)	
MFG 101	Machining Processes I (4/6)	
MFG 120	Print Interpretation & Processes (3/4)	
MTH 110	Technical Math I (3/4)	

Year 1 (Spring Semester)		**Credits: 12**
APP 106M	Industrial Safety (1/1)	
MFG 102	Machining Processes II (4/6)	
MFG 201	CNC I (4/6)	
MFG 204	Computer-Aided Manufacturing (3/4)	