

MACHINING INSTRUCTOR

Roger Johnson

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CNC MACHINING

Program Description

The Blong Technology Center (BTC) offers manual machining and Computer Numerical Control (CNC) machining. Certificate programs are available in both manual and CNC programming; the Associate in Applied Science degree program is available in CNC machining. Learning is hands-on in the modern laboratory furnished with the same types of equipment used by local manufacturing plants. Classes are offered in an eight-week format with a flexible schedule of attendance during day and evening hours (subject to sufficient enrollment).

Award Options

Associate in Applied Science - Machining/CNC

Certificate - Manual Machining

Certificate - CNC Programming

Job Outlook

The Occupational Outlook Handbook says that there will more job openings in the next several years than there are trained workers to fill them. Greater use of computers in the manufacturing sector has led to a shortage of qualified workers. Locally, the Skills 2000 survey conducted by the Eastern Iowa Community College District indicated a coming need for more than 5,000 people in manufacturing technology, including machine operators and fabricators.

Earnings

According to *The Occupational Outlook Handbook*, the middle 50 percent of machinist employed by industry earned \$10.39 to \$11.43 an hour.

Companies that have hired SCC/MTC graduates:

M.A. Ford Manufacturing

Metal Tech Manufacturing

Lewis Machine and Tool

Sears Manufacturing

ALCOA, Inc.

Packaging Technologies

John Deere

Olsen Engineering

HWH



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EASTERN IOWA COMMUNITY COLLEGE DISTRICT

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1-888-336-3907

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MACHINING/CNC

A.A.S. DEGREE

SESSION I		CREDITS
MFG:186	Plant Safety	1
MAT:733	Math for Manufacturing Technologies A	1.5
MFG:115	Lathe Work	<u>4.5</u>
		7
SESSION II		
MAT:733	Math for Manufacturing Technologies B	1.5
MFG:105	Machine Shop Measuring	3
MFG:192	Blueprint Reading	<u>3</u>
		7.5
SESSION III		
CSC:112	Computer Fundamentals for Technology I/A	2
MFG:113	Vertical/Horizontal Mills	5.5
MFG:111	Machinery Handbook	<u>1</u>
		8.5
SESSION IV		
CSC:113	Computer Fundamentals for Technology I/B	2
MFG:114	Surface Grinding	2.75
MAT:734	Drills and Saws	2
MFG:140	Geometric Dimensioning and Tolerances	<u>1</u>
		7.75
SESSION V		
MFG:190	Metallurgy	2
EGT:116	Continuous Quality Management	3
MFG:117	Cylindrical Grinding	<u>1.5</u>
		6.5
SESSION VI		
PHY:173	Applied Physics I/A	1.75
ENG:111	Technical Writing (16 wk. class)	3
MFG:151	CNC Fundamentals	<u>2</u>
		6.75
SESSION VII		
PHY:174	Applied Physics I/B	1.75
MFG:116	Carbide Tooling	1
MFG:118	Machine Tool Project (Capstone)	<u>4</u>
		6.75
SESSION VIII		
MFG:221	CNC Milling Operator	2
MFG:201	CNC Turning Operator	2
MFG:224	Coordinate Measuring Machine	1
MFG:223	CAD/CAM	<u>2</u>
		7
SESSION IX		
MFG:200	Electric Discharge Machines	1
MFG:205	Mill Programming	2
MFG:229	CNC Project (Capstone)	2
MFG:239	Lathe Programming	<u>2</u>
		7
A.A.S. TOTAL	64.75

ADMISSIONS OFFICER

Catherine Petersen

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JOB PLACEMENT/STUDENT SUCCESS

SPECIALIST

Wayne Cole

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500 Belmont Road
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(563) 441-4001

1-800-895-0811

The Eastern Iowa Community College District endorses the principle of equal educational opportunities for all people regardless of race, color, creed, marital status, national origin, sex, sexual orientation, religion, ancestry, age, or non-job related handicap or disability in the educational programs or activities it operates. Persons having inquiries concerning the district's accommodation for or compliance with Title VI, Title IX, Section 504, the Americans with Disabilities Act and the Age Discrimination Act may contact: Affirmative Action Officer, 306 West River Drive, Davenport, IA 52801-1221 or call (563) 336-3300

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MANUAL MACHINING CERTIFICATE

MFG:186	Plant Safety	1
MFG:192	Blueprint Reading	3
MAT:733	Math for Mfg Technologies - A	1.5
MAT:734	Math for Mfg Technologies - B	1.5
MFG:116	Carbide Tooling	1
MFG:105	Machine Shop Measuring	3
MFG:112	Drills and Saws	2
MFG:115	Lathe Work	4.5
MFG:113	Vertical/Horizontal Mills	5.5
MFG:114	Surface Grinding	2.75
MFG:117	Cylindrical Grinding	1.5
MFG:118	Machine Tool Project (Capstone)	<u>4</u>

CERTIFICATE TOTAL31.25

CNC PROGRAMMING CERTIFICATE

MFG:186	Plant Safety	1
MFG:192	Blueprint Reading	3
MFG:146	Geometric Dimensioning and Tolerances	1
MAT:733	Math for Mfg Technologies - A	1.5
MAT:734	Math for Mfg Technologies - B	1.5
MFG:116	Carbide Tooling	1
MFG:151	CNC Fundamentals	2
MFG:201	CNC Turning Operator	2
MFG:239	Lathe Programming	2
MFG:205	Mill Programming	2
MFG:221	CNC Milling Operator	2
MFG:229	CNC Project (Capstone)	2
MFG:200	Electric Discharge Machines	1
MFG:223	CAD/CAM	2
MFG:224	Coordinate Measuring Machine	<u>1</u>

CERTIFICATE TOTAL 25



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