

ARE YOU MECHANICALLY INCLINED?

ARE YOU LOOKING TO BEGIN A NEW CAREER NOW?



BEGINNING WINTER 2017

5 WEEK CNC OPERATOR TRAINING COURSE

- Company-Driven Training Program
- Nationally Recognized Certifications
- Personalized Career Preparation including mock interviews, resume writing, and job skill development

JANUARY 9-FEBRUARY 10, 2017
8:00 am-2:00 pm | (no class January 16)

CNC OPERATOR COURSE WITH OSHA 10: \$1,500

Successful completers of Level I will receive:

- 90 hours of industry-led training
- Certificate of Completion from Schoolcraft College
- NIMS LEVEL 1 Certification Exams: Measurement, Materials & Safety; Job Planning, Benchwork & Layout
- Guaranteed interviews upon completion of the course
- 16 Hours Personalized Career Preparation including mock interviews, resume writing and job skills development
- OSHA 10 Certification
 - This training covers a variety of general industry safety and health hazards which a worker may encounter.
 - Training will emphasize hazard identification, avoidance, control and prevention of hazards.

WHAT IS A CNC OPERATOR?

The CNC Operator operates computer numerical control (CNC) machines to perform machine functions such as boring, turning, facing, and threading parts of metallic work pieces such as castings, forgings and bar stock.

JOB OPPORTUNITIES IN METRO DETROIT

Benefits vary but may include:

- Full Time Positions Available
- Starting Pay \$10-14/hour
- Competitive Benefits Package: Medical, Dental, Life, Disability, 401(k)
- Bonus Incentives
- Potential for Advancement and Further Education
- Consistent Scheduling
- Two Shifts
- Veteran Friendly

ASK ABOUT JOB TRAINING FUNDS TO HELP PAY FOR THIS TRAINING.

For more information, please contact:

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Schoolcraft
College



CNC OPERATOR COURSE CURRICULUM

Blueprint Reading, GD&T

Shop Math

Fractions to decimal conversion
Metric to English conversion
Feed and speed formulae, Depth of cut, Drill point calculations
Threading, Tap drill size using formula

Perform basic machine tool operations

Power up, upload G&M code programs
Set and load tools into magazine
Simulate programs, first piece run and inspection

Identify CNC Mill Tools used for CNC machining

Helix, Number of flutes
Solid Carbide and Indexable inserts
High Speed Tools
TiC, TiN, and Al₂O₃ coatings and the effect on CNC machining
Coolants and use of the refractometer

Identify CNC Lathe Tools used for CNC machining

ANSI & ISO tool holders and inserts
Setting Lathe tooling offsets
Setting Home position
Soft Skills training

Inspect basic components

Use inspection tools such as micrometers, dial calipers, gage blocks and gage pins
Bore gages and inside micrometers

Develop CNC 2 and 3 axis Mill

G&M code programs

Face, profile, chamfer, engrave, drill and tap
Employ Cutter Diameter Compensation
Employ peck drilling

Develop CNC 2-axis Lathe

G&M code programs

OD tuning and facing and the use of parting tools

Setup and define work offsets and tool length offsets

Debug and edit G&M code programs on the shop floor

XYZ adjustments as necessary
Feed and speed adjustments as necessary
Inspect and replace tooling as required

Setup machines for production runs

Load work holding vices
Indicate vices and straight edges square
Pick up dowel pins and round parts using an indicator

Career Readiness

Resume preparation
Interviewing skills and practice
Financial literacy
Workplace habits for success

OSHA Topics include:

- Introduction to OSHA
- Walking and Working Surfaces, including fall protection
- Exit Routes, Emergency Action Plans, Fire Prevention Plans, and Fire Protection
- Electrical
- Personal Protective Equipment
- Hazard Communication
- Hazardous Materials
- Materials Handling
- Machine Guarding
- Introduction to Industrial Hygiene
- Bloodborne Pathogens
- Ergonomics
- Safety and Health Program
- Fall Protection
- General Industry Hazards and Policies

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