



at a glance

Kirkwood
COMMUNITY COLLEGE

Industrial Technologies

Jones Hall

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CNC Machining Technology

Department: Industrial Technologies

Degree: Diploma

Entry time: Fall

Length: 3 semesters

- **Kibbie Grant:** Students in this program may be eligible to have half their tuition paid for by the Kibbie Grant. Go to www.kirkwood.edu/Kibbie for more details.
- The Kirkwood CNC Machining Technology program is **accredited** by the **National Institute for Metalworking Skills (NIMS)**.
- Earn a **portable, industry-recognized NIMS credential** while in the program.
- The curriculum incorporates **industry-standard equipment** that prepares students for rewarding, well-paying careers after graduation.
- **Hands-on training** is given with a wide variety of machines that range from **mills** and **lathes** to **water** and **laser jets**.
- Students graduate with the skills necessary to **work in high-demand positions** in the manufacturing sector.
- Students can **transfer credits** from this program to the **University of Northern Iowa** and work toward a B.A. in Technology Management.

Program Description

Kirkwood's Computer Numerical Control (CNC) Machining Technology program provides instruction in the manufacturing of precision parts and products. The traditional production machinist role has evolved to production machining that requires many configurations for short runs to meet just-in-time delivery demands of customers.

Program graduates will be able to program, edit, configure, and operate CNC lathes and mills. CNC students study quality control methods known as statistical process control. The use of special quality control equipment, such as coordinate measuring machines, is taught in this program.

Career Opportunities

Machinist
Mold builder
Salesperson
Job shop technician
CNC programmer/operator
Quality control technician
Tool and die maker

Sample Classes

Machinist Mathematics
Machinist Trade Printreading
Job Planning, Benchwork & Layout (NIMS)
Measurement, Materials & Safety (NIMS)
Milling Machine Operations (NIMS)
CNC Mill Operator (NIMS)
CNC Lathe Operator (NIMS)
CNC Mill Program and Setup (NIMS)

CNC Lathe Program and Setup (NIMS)
Jig and Fixture Design
CNC Lathe Operations (NIMS)
CNC Milling Operations (NIMS)

Certificate Options

Short-term training options are available by earning a certificate. Certificate options for CNC Machining Technology include:

Milling Certificate
Turning Certificate

Industry Endorsements Earned

NIMS Level I
CNC Credentials

Scholarships

Kirkwood will help you pay for college! Kirkwood awards more scholarships than any other community college in Iowa. For more information and to apply, visit www.kirkwood.edu/scholarships.

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