

CNC OPERATOR, CAREER PATHWAY CERTIFICATE

Program Code: CC.CNCOPERATOR

This program provides the training necessary for employment within the advanced manufacturing field. The program is arranged with core CNC competencies in mind while allowing the student flexibility to take other relevant manufacturing courses. Course work covers blueprint reading, technical mathematics, safety, and manual and CNC machining. The program is fully transferable to the [Machine Tool Technology Certificate](#) or [Machine Tool Technology AAS](#).

This certificate prepares students for a wide variety of manufacturing careers and opportunities to continue at a four-year institution.

For more information, contact the Industrial Technology Department, 503-594-3318.

Outcomes

Program Outcomes

Upon successful completion of this program, students should be able to:

- accurately interpret technical drawings to determine key inspection dimensions and specifications;
- work safely in an industrial environment around machinery, power tools and chemicals;
- operate manual machine tools to produce simple products to required specifications;
- operate CNC machine tools including: program try-out, tooling/work-piece setup and adjustment of three-axis lathes;
- apply mathematics to solve manufacturing problems in machining and inspection.

Requirements

Code	Title	Credits
MFG-104	Print Reading	3
MFG-107	Industrial Safety & First Aid	3
MTH-050	Technical Mathematics I	4
MTT-111	Manual Machining I	5
MTT-121	CNC I: Set-Up and Operation	3
Total Credits		18

Careers

Career opportunities include:

- entry-level CNC operator
- machinist
- general manufacturing technician