Learn about careers in manufacturing!

Today's manufacturing is about advanced technologies, state of the art facilities, and fast-paced work environments. Learn skills for in-demand manufacturing careers: CNC machine tool programmers, computer-controlled machine tool operators, and mechatronic technicians.



In-Demand Machine & Technology Occupations

Minnesota Salary Range: $44,215 - 103,742

High School Diploma

Multiple Machine Tool Operator

Welder

Certification

Machinist

Industrial Machinery Mechanic

CNC Programmer

Associate Degree

Industrial Engineering Technician

Calibration and Engineering Technician

Mechanical Engineering Technician

Bachelor's Degree

Industrial Engineering

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
96301	Machine Technology 1	.5	Elective	Yes

Increase your knowledge and skills in the use of common hand tools, engine lathes, shapers, drill pressed, milling machines, and grinders. In this class students will have hands-on experiences in elementary mechanical fundamentals and principles used in precision manufacturing industries. *This course is a prerequisite for course 96302.*
(Only available at South High School in 2026-27)

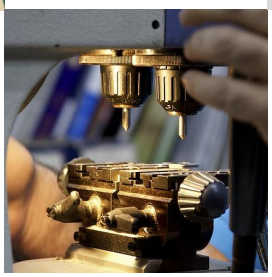
96302	Machine Technology 2	.5	Elective	Yes

This course builds upon skills developed in the Machine Technology 1 course with increased emphasis on precise workmanship. Students are expected to participate more actively in the planning stages of the work and to take a more significant role in shop organization and management. *This course is a prerequisite for course 96303.*
(Only available at South High School in 2026-27)

96303	Machine Technology 3	.5	Elective	Yes

This advanced course is valuable preparation for students interested in machine tool, manufacturing, mechatronics or engineering careers. Project work is based on interests, skills, and ability. Expand machine shop experiences in various combinations of fundamental mechanisms, methods, and processes as they apply to machine shop tools.
(Only available at South High School in 2026-27)





Interested in an apprenticeship-like Experience?

The automotive, manufacturing and construction programs take on a few unpaid interns each year to work on independent projects, train students, and learn how to manage a variety of tasks associated with working in a professional shop.

Talk to your CTE teacher if you are interested in this opportunity.