

Program Information

The Anoka Technical College Machine Technology Certificate 1 is a 16-credit program that prepares students for entry level skills to set up and operate the following equipment: manual lathes, drill, mills and grinders. Program graduates are skilled in the areas of blueprint reading, math and inspection.

Machinists working in this field are expected to set up and operate manual lathes, drills, mills and grinders. They are able to inspect and produce parts to the desired dimensions under proper supervision.

Program Learning Outcomes

- The student will demonstrate machine skills and practices consistent with the manufacturing industry.
- Exhibit safety principles and practices in a manufacturing environment.
- Communicate effective use of machine shop theory and process terminology.
- Work efficiently as a member in a machine shop environment to manage time and meet project deadlines.
- Work effectively as a member of a team while accepting constructive criticism.

Industry and Career Outlook

The machinist is a skilled metal worker who produces metal parts by using machine tools and hand tools. Training and experience enable the machinist to plan and carry through all the operations needed to turn out a finished machine product and to switch readily from one kind of product to another. The machinist's background and knowledge enables him/her to turn a block of metal into an intricate, precise part.

All options are an art as well as a skill, and are considered to be demanding occupations. There is a great variety in the construction of dies and molds, depending on the design of a part, the type of materials used, the ingenuity of the designer, and the knowledge and skill of the die and mold maker, who must machine intricate components of various tooling to tolerances expressed in fractions of one-thousandths of an inch.

Wage information is available from the [Minnesota Department of Employment and Economic Development](#).

Program Start Dates

Fall Semester.....August
Spring SemesterJanuary

Course Prerequisites

Some courses in this program may require a prerequisite. Please see [course descriptions](#) for more details.

Program Sequence

First Semester	16
<input type="checkbox"/> MACH 1101 Milling	4
<input type="checkbox"/> MACH 1106 Lathe	3
<input type="checkbox"/> MACH 1121 Metrology	2
<input type="checkbox"/> MACH 1132 Blueprint Reading	3
<input type="checkbox"/> MACH 1140 CAD I.....	1
<input type="checkbox"/> MACH 1171 Math for Machinist	3
OR	
<input type="checkbox"/> MATH 1650 College Trigonometry (Goal 4)	3

Graduation Requirements

Students must earn a cumulative 2.0 GPA or higher to be eligible for graduation from this program.

Faculty Contact

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For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu

Also see: CNC Design & Manufacturing Technology AAS, Advanced CNC Machine Technology diploma and Machine Technology 2 and 3 certificates