

Program Information

The Anoka Technical College Multi-Axis Machining advanced certificate is a nine (9)-credit program advanced certification that prepares students in the understanding of multi-axis programming and the art of machining.

Multi-Axis Machining program graduates are skilled in the areas of multi-axis principles of programming and machining, and cycle time reduction.

Graduates also gain a deeper insight into the knowledge needed to create complex three-dimensional (3-D) shapes and five-sided machining. This increases the machining operations to be performed in one setup, reducing handling and machines necessary to complete the job. With more companies utilizing lean manufacturing, the use of multi-axis machining technology continues to grow.

Admission Requirements

This advanced certificate requires an evaluation examination through the Machine Trades Department.

Graduation Requirements

All Anoka Technical College students seeking an Associate in Applied Science (AAS), diploma, or certificate must meet the cumulative grade point average (GPA) of 2.0 or higher.

Industry Information

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.

Wages/Outlook/Advancement

Wage information is available from the [Minnesota Department of Employment and Economic Development](http://mn.gov/deed/job-seekers/job-outlook/index.jsp) (<http://mn.gov/deed/job-seekers/job-outlook/index.jsp>).

Technical Education: 9 Credits

- MACH 2510 Multi Axis CNC Programming..... 4
- MACH 2520 Multi Axis CNC Machining 5

Also see: CNC Design & Manufacturing Technology AAS, Advanced CNC Machine Technology diploma, Machine Technology certificates 1, 2, and 3

Start Dates

Fall Semester.....August
Spring SemesterJanuary

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