

Manufacturing Training

Training geared toward the working professional.

Advanced Machining Certificate

Starting August 2010 – Advanced Machining Certificate

This nine credit certificate will provide the student the fundamentals of Swiss style CNC machines including; basic history, terms and definitions, basic Swiss machine operation, part processing, manual and computer supported part programming, as well as CAD/CAM programming with stimulation and program analysis.

What is Swiss Machining?

Swiss style machining is a unique type of turning in which a sliding head stock pushes material through a guide bushing and past stationary tools to create very accurate complex shapes. Live rotary cross tools create secondary features, such as holes or slots, and other geometries that would normally require multiple machines and setups. Swiss style machining centers enable parts to be completely machined in one setup. Medical devices, electronic devices, and aerospace components are common applications of this technology.

This highly specialized advanced machining training will benefit individuals who are motivated thinkers, and who have the desire to explore the Swiss machining market as an employer or employee. Prerequisite: Graduation from or concurrent enrollment in a two-year machine tool program or a minimum of two years related work experience with CNC equipment.

August 2010 - Swiss 1 420-382

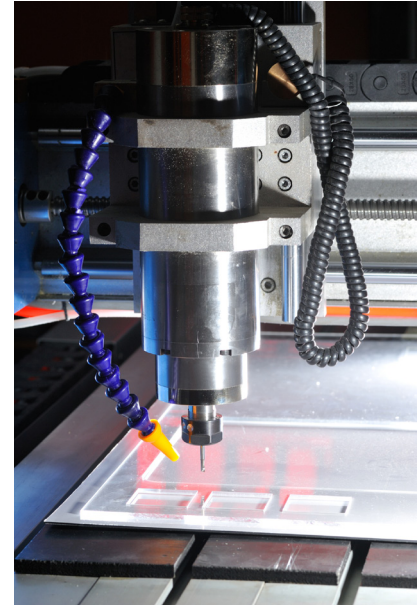
This course will introduce the student to the Swiss machine concept and operations fundamentals. Emphasis will be placed on the skill development for basic Swiss processes and operation of the Citizen Swiss machine. This course includes performance competencies for machine setup, load part programs, setting tools, adjusting offsets, and the set up of an automatic bar feeder for automated manufacturing. 6 hr/wk for 16 wks

January 2011 - Swiss 2 420-383

This course prepares the student for manual and software assisted programming of a Swiss machine tool. The content will cover G and M codes specific for Swiss programming, synchronized programming techniques for multi spindle machines, program editing, process optimization, and problem solving for Swiss machine tools. 6 hr/wk for 16 wks Prerequisite: Swiss 1

Fall 2011 - CAD/CAM for Swiss 420-381

Students will use Esprit CAD/CAM software to aid in the design and manufacturing of parts on the CNC Swiss turning machine. Programs will consist of basic turning, mill/turn, and pick off with multiple spindles. Parts will be machined both on the Swiss machine and virtually with the simulation component of the software. 6 hr/wk for 16 wks Prerequisite: Swiss 1 & Swiss 2



Apply Now!

- Submit a completed Certificate Identification Form to the Registration Office.
- You will be notified of upcoming registration dates and times. Register each semester for required classes.
- Once you have fulfilled all the course requirements, submit the Certificate Completion Form with the \$5 fee to receive your printed certificate.
- Both forms are available on our website: www.cvtc.edu/Programs&Courses/Certificates

How do I Register?

Online: Visit www.cvtc.edu/pages/1318.asp to print the corresponding registration form

Mail: Chippewa Valley Technical College
620 W. Clairemont Avenue
Eau Claire, WI 54701

Call: (715) 833-6200
Toll Free: 1-800-547-CVTC
*Payment is due at the time of registration.
VISA, MasterCard & Discover are accepted.*

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