



Precision Machining Technology

Precision Machinists set up and operate a variety of machine tools to produce precision parts and instruments. If you enjoy working with your hands and finding the exact details needed to successfully complete a task, then precision machining might be the profession that will make your career path flourish.

About The Program:

Complete the MoSTEMWINS Portal program and start your 17-credit-hour Precision Machining Technology Certificate of Specialization program. Learn to safely setup and operate mills, lathes, grinders and drill presses. You will also learn the basics of CNC (Computer Numerical Control) machine set-up and operation.

Program Highlights:

- Daytime classes are held Monday thru Friday.
- Accelerated classes can be complete in one semester.
- Prepare for National Institute for Metalworking Skills (NIMS) credentials and/or the Computer Integrated Manufacturing AAS degree.
- Median starting salaries are \$14 per hr/\$29k per year.
- Proud sponsors include: Bachman Machine Company, Deutsche Precision, LLC., GKN Aerospace, Hydromat Inc., Patriot Machine, Inc., Sunnen Products Company, Stroco Manufacturing, Inc., US RING.



Cost of Program:

Estimated costs are \$2,221.00 for tuition, books and supplies. Financial assistance and scholarships are available for those who meet eligibility requirements. **Compare these costs to other programs in St. Louis!**

Enrollment is open. Let's get connected!

Next Steps:

1. Visit STLCC.edu/MSW
2. Complete your online application
3. Attend an Information Session

Information Sessions:

St. Louis City

St. Louis Community College Forest Park
SLATE American Job Center – Market Street

North St. Louis County

University of Missouri-St. Louis
American Job Center – North Oaks Plaza



Spring classes start January 19, 2016

Course Description	Course Number	Credit Hours
Mechanical Blueprint Reading (1st 8-weeks) This course covers drawing understandings, sheet sizes, information in title blocks, revision blocks, and tolerance blocks. Students will learn how to use measuring instruments as they pertain to blueprints.	ME: 154	2 Credit Hours
Measurement, Materials and Safety (1st 8-weeks) This course covers Measurement, Materials and Safety credentialing examination. Students will learn foundational skills for the metalworking industry including the basics of metal cutting, measurement, safety and shop math.	ME: 100	3 Credit Hours
Job Planning, Benchwork and Layout (1st 8-weeks) This course prepares students for the National Institute for Metalworking Skills (NIMS) Job Planning, Benchwork and Layout credentialing examination. Students will build upon skills learned in the Measurement, Materials and Safety class. They will learn additional foundational skills for the metalworking industry including the basics of benchwork, layout, hole making operations, grinding, shop trigonometry and inductory geometric dimensioning and tolerancing.	ME: 111	3 Credit Hours
Manual Machining I (2nd 8-weeks) This course prepares students for the NIMS Level 1 milling, grinding and drill press skills examinations. Students will build upon skills learned in the Measurement, Materials and Safety class and the Job Planning, Benchwork and Layout course. They will learn additional skills for the metalworking industry including the safe set up and operation of milling machines, drill presses and grinders.	ME: 120	3 Credit Hours
Manual Machining II (2nd 8-weeks) This course prepares students for the NIMS Level I Turning Between Centers and Chucking credentialing assessment. Students will build upon skills learned in the ME:100 and ME:111 courses. They will learn additional skills including fundamental operations performed on a lathe.	ME: 200	3 Credit Hours
Introduction to CNC Machining (2nd 8-weeks) This course prepares students for the NIMS Level 1 Computer Numeric Control (CNC) milling examinations. Students will build upon skills learned in the ME:100 and ME:111 courses. They will learn additional skills including the safe set up, operation and basic programming of CNC milling machines.	ME: 212	3 Credit Hours

Certificate of Specialization – 17 Total Credit Hours

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Non-Discrimination/Accommodations Statement: St. Louis Community College is committed to non-discrimination and equal opportunities in its admissions, educational programs, activities, and employment regardless of race, color, creed, religion, sex, sexual orientation, national origin, ancestry, age, disability, genetic information, or status as a disabled or Vietnam-era veteran and shall take action necessary to ensure non-discrimination. Sexual harassment, including sexual violence, is also prohibited. For information or concerns related to discrimination or sexual harassment, contact William Woodward, Associate Vice Chancellor for Student Affairs, 314-539-5374.

If you are a person with a documented disability and need accommodations to attend classes, please fill out the Access Office application at stlcc.edu/access at least six weeks prior to the beginning of the semester.