Fine Tune Your Career

What does it take to become a precision machinist? Precision machinists set up and operate a variety of machine tools to produce precision parts and instruments. Machinists apply their knowledge of mechanics, mathematics, metal properties, layout and machining procedures.

Typical job duties include reading and interpreting mechanical drawings, layout and job planning, set up of mills and lathes, finishing surfaces and checking parts for accuracy. If you are the kind of person who enjoys working with their hands; if you look forward to finding the exact details needed to successfully complete a task, and if problem solving is necessary to job satisfaction, then a profession in precision machining might be the answer to your career questions.

ABOUT THE PROGRAM

This 17-credit-hour Certificate of Specialization prepares students for entry level jobs in the machine tool industry. Students will learn to safely setup and operate mills, lathes, grinders and drill presses. They will also learn the basics of CNC (Computer Numerical Control) machine set-up and operation. The courses are designed to prepare students to earn up to seven nationally recognized Level I NIMS (National Institute for Metalworking Skills) credentials. Earning NIMS certificates requires both a written test and the production of a metal part to very precise specifications for examination by industry experts.

This program was developed as part of the MoManufacturingWINs grant. It is intended to help adults get back into the workforce as quickly as possible, therefore it is offered on an intense 16-week schedule. Students should expect to be engaged Monday through Thursday for at least 7 hours each day. Additional open lab time during the evenings or on Friday may be necessary to advance one’s skills to the level required to earn NIMS credentials.

Tuition, books and supplies are provided through grant funds until September 30, 2015. Interested applicants must:
1. Submit an application to participate in the MoManufacturingWINs grant. Applications are available at www.stlcc.edu/MMW. Click on the Apply Now icon on the left side.
2. Attend an information session.

OPPORTUNITIES IN THIS FIELD

According to EMSI data, there are almost 3000 machinists in the St. Louis region and a quarter of them are within 10 years of retirement age. Nationally, the Bureau of Labor Statistics expects a 7 percent growth rate through 2020. Entry level machinists can move forward by developing higher level machining skills, learning CNC programming, becoming a tool and die maker or continuing their education in manufacturing, mechanical or industrial engineering technology.

SALARY INFORMATION

According to the Bureau of Labor Statistics, the national median salary for machinists is $19.19 per hour.

FEES

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Please visit www.stlcc.edu/fees for the most current information. Additional fees apply to some courses. Fees are subject to change.

CONTACT INFORMATION

For scheduling and admissions information:
Becky Epps, grant manager
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314-539-5773

For course information:
Tim Poelker, assistant professor
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314-513-4996

YOU CAN EARN THIS CERTIFICATE AT: Florissant Valley

You may take general education classes toward this degree at any of our campuses or education centers.
## Certificate of Specialization

<table>
<thead>
<tr>
<th>CURRICULUM</th>
<th>Course Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 154</td>
<td>Mechanical Blueprint Reading (1st 8-weeks)</td>
<td>2</td>
</tr>
<tr>
<td>ME 100</td>
<td>Measurement, Materials and Safety (1st 8-weeks)</td>
<td>3</td>
</tr>
<tr>
<td>ME 111</td>
<td>Job Planning, Benchwork and Layout (1st 8-weeks)</td>
<td>3</td>
</tr>
<tr>
<td>ME 120</td>
<td>Manual Machining I (2nd 8-weeks)</td>
<td>3</td>
</tr>
<tr>
<td>ME 200</td>
<td>Manual Machining 2 (2nd 8-weeks)</td>
<td>3</td>
</tr>
<tr>
<td>ME 212</td>
<td>Introduction of CNC Machining (2nd 8-weeks)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours for Program: 17

These classes are scheduled Monday through Thursday. Students should expect to spend at least 7 hours per day in a class or lab during this accelerated program.

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