



Machine Tool Technology – Machine Operator

Level 1 Certificate

Manufacturing, Logistics, & Transportation Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
FIRST YEAR				
First Semester				
<input type="checkbox"/> MCHN 1438	Basic Machine Shop I	4	F, Sp	F2F
<input type="checkbox"/> DFTG 1325	Blueprint Reading and Sketching	3	F, Sp	Hyb
<input type="checkbox"/> TECM 1301	Industrial Mathematics	3	F, Sp	Hyb
Second Semester				
<input type="checkbox"/> MCHN 1441	Basic Machine Shop II	4	F, Sp	F2F
<input type="checkbox"/> MCHN 1190	Special Topics in Machine Shop Assistant	1	F, Sp	F2F
<input type="checkbox"/> MCHN 1452	Intermediate Machining I	4	Sp	F2F
<input type="checkbox"/> MCHN 1343	Machine Shop Mathematics	3	F	F2F
<input type="checkbox"/> MCHN 1191	Special Topics in Machinist/Machine Technologist	1	F, Sp	F2F
Third Semester				
<input type="checkbox"/> MCHN 2431	Operation of CNC Turning Centers	4	F	F2F
<input type="checkbox"/> MCHN 1191	Special Topics in Machinist/Machine Technologist	1	F, Sp	F2F
<input type="checkbox"/> MCHN 1454	Intermediate Machining II	4	Sp	F2F
TOTAL CREDIT HOURS		32		

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

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Transfer Opportunities

Associates of Applied Science at community colleges.

Career Opportunities and Salaries

Machine Operator - \$41,982

Marketable Skills

- 1) Work well on a team
- 2) Define, explain and interpret technical information
- 3) Use critical thinking to identify strengths and weakness to determine solutions
- 4) Identify appropriate information sources
- 5) Use math to answer questions
- 6) Schedule/coordinate Operations
- 7) Use current technology to diagnose and solve problems
- 8) Use Troubleshooting to determine causes and decide what to do about it
- 9) Think on your feet

Technical Skills

Critical Thinking — Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Mathematics — Use mathematics to solve problems.

Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Systems Analysis — Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.

Active Learning — Understanding the implications of new information for both current and future problem-solving and decision-making.

Operate manual and computer numerical controlled machines. Operate lathes, mills, engine lathes, surface grinders and other precision equipment.