






	<p>Pathway: Precision Machining Technology</p>	<p><i>Plan of Study:</i> <u>Precision Machining</u></p>
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<p>Program: <u>Precision Machining</u></p> <p>Career Goal (O*Net Code): <u>CIP 48.0510 to SOC Crosswalk</u>; <u>O*Net Search for Careers Related to Precision Machining</u></p> <p><i>(Click below to access education, skills, and employment outlook information)</i></p> <p>51-4011.00 <u>Computer Controlled Machine Tool Operators, Metal and Plastic</u> </p> <p>51-4034.00 <u>Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic</u></p> <p>51-4012.00 <u>Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic</u></p> <p>51-4081.00 <u>Multiple Machine Tool Setters, Operators and Tenders, Metal and Plastic</u></p> <p>51-4041.00 <u>Machinists</u> </p> <p> - Bright Outlook  - Green</p>	<p>Relevant Occupational Experience</p> <p>(Your Life Experiences may be worth College Credit!):</p> <p><u>CCCS Credit for Prior Learning Guide</u></p> <p><u>FRCC Credit for Prior Learning</u></p> <ul style="list-style-type: none"> • <u>FRCC Standards for Awarding</u> • <u>Policies and Procedures</u> • <u>Transferability</u> <p><u>LMI Gateway Link to Related Occupations</u></p>
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Possible Pathways to your Career!

	<p>Programs Available</p> 	<p>Program Length <i>(*Based on meeting Program Entrance Requirements)</i></p>	<p>Estimated Tuition <i>(*Based on Resident Tuition after COF)</i></p>	<p>Career Options</p>	<p>Salary Range</p>
<p>Certificate Option(s)</p>	<p><u>Quality Control</u> <u>Manual Machining</u> <u>CAD/CAM Certificate</u> <u>Precision Machining Technology</u></p>	<p>6 Credits 17 Credits 12 Credits 35 Credits</p>	<p><u>\$749.40</u> <u>\$2,123.30</u> <u>\$1,498.80</u> <u>\$4,371.50</u></p>	<p><u>Machine Shop Assistant, Lathe Operator, Mill Operator, Metal Fabricator, General Precision Metal Worker, Computer-Numerically-Controlled (CNC) Lathe Operator, Computer-Numerically-Controlled (CNC) Mill Operator</u></p>	<p>\$ - \$\$\$</p>
<p>AAS Degree</p>	<p>Precision Machining Technology</p>	<p>Variable, Not Offered at FRCC <u>RRCC</u> & <u>CCD</u></p>	<p>Variable, Not Offered at FRCC</p>	<p><u>Machine Shop Assistant, Lathe Operator, Mill Operator, Metal Fabricator, General Precision Metal Worker, Computer-Numerically-Controlled (CNC) Lathe Operator, Computer-Numerically-Controlled (CNC) Mill Operator</u></p>	<p>\$ - \$\$\$</p>

Articulation Opportunities to Advanced Degrees:

<p>Advanced Degree(s)</p>	<p><u>Metropolitan State University – Mechanical Engineering Technology</u></p> <p>For more information about colleges that have these programs go to <u>www.CollegeinColorado.org</u></p>	<p><u>Tuition & Fees</u></p> <p>Variable, Not Offered at FRCC</p>	<p>Advanced Machining Center Manager, Advanced Manufacturing Technologist, CNC Machining Engineer, Machine Tool Sales Engineer, Machining/Machine Tooling/Instructor, Manufacturing Engineering Manager, Manufacturing Machining Engineer, Mechanical Engineer</p>	<p>\$\$-\$\$\$\$</p>
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[College Tuition Comparison Guide](#)

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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Extended Learning Experiences

Student Services & Support Structures:

- [Academic Advising](#)
- [Academic Support Labs](#)
- [Admissions and Records](#)
- [Bookstores](#)
- [Career Counseling](#)
- [Crisis Counseling & Stress Management Services](#)
- [Disability Services](#)
- [English as a Second Language](#)
- [General Education Development \(GED\)](#)
- [Tutoring](#)
- [Libraries](#)
- [Student Email](#)
- [Student Employment Services](#)
- [Student Life](#)
- [Testing Center Services](#)
- [Veteran Services](#)

Financial Aid:

- [FAFSA](#)
- [Grants](#)
- [Work Study](#)
- [Loans](#)
- [Scholarships](#)

Professional Affiliations

- [National Tooling and Machining Association](#)
- [International Association of Machinists & Aerospace Workers](#)

Practical Learning Experiences:

- [Internships](#)
- [Career Preparation](#)
- [Service Learning/Volunteering](#)
- [Student Experiences](#)

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Physical & Sensory Requirements, Precision Machining

Key: N = Never O = Occasional: 1 – 33% of time F = Frequent: 34 – 75% of time C = Constant: 76 – 100% of time

PHYSICAL CAPABILITIES					SENSORY CAPABILITIES														
Activity	Frequency				Activity	Frequency				Activity	Frequency								
	N	O	F	C		N	O	F	C		N	O	F	C					
Lift/Carry					Push/Pull					Walk					Able to see clearly at both near and far distances				
10 lbs or less			X		15 lbs or less		X			Sit		X			Able to identify and distinguish colors			X	
11-20 lbs			X		16-30 lbs		X			Stand				X	Able to judge distances and spatial relationships			X	
21-50 lbs		X			31-50 lbs		X			Fine motor manipulations			X		Able to communicate verbally and in writing			X	
51-100 lbs	X				51-100 lbs	X				Gripping			X						
100+ lbs	X									Squat/Kneel		X			Able to distinguish between sounds such as telephone vs. fire alarms, tone of voice, varied decibels			X	
										Bend		X							
Drive	X				Computer			X		Twist/Turn		X			Able to perceive attributes of objects such as size, shape, temperature, texture through touch			X	
Manual	X				Data Entry			X		Crawl	X								
Automatic	X				Use of mouse			X		Climb		X							
										Reach above chest		X							
										Reach outward		X							

For more information on the Physical & Sensory Requirements for this Pathway, please contact:

Disability Support Services

- [Boulder Campus](#): (303) 678 - 3922
- [Larimer Campus](#): (970) 204 - 8112
- [Westminster Campus & Brighton Center](#): (303) 404 - 5676

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