

Monroe CTI Grades 9-12	Precision Machining CIP Code: 48.0501	Present Education Levels	Action/Need
<b>Classroom Tests</b>	Unit tests		
<b>Assessment / Industry Certification Tests and Costs</b>	NIMS Machining Level I NIMS Machining Level I CNC milling NIMS Machining Level I CNC turning NIMS Machining Level I Manual Milling NIMS Machining Level I Manual turning between Centers NIMS Machining Level I Manual turning with chucking NIMS Machining Level I Manual Drill Press Operations NIMS Machining Level I Measurement, Materials and Safety NIMS Machining Level I Planning, Benchwork, Layout		
<b>Number of Books</b>	1 Textbook 1 Workbook		
<b>Lecture Time</b>	40 minutes, 3 days a week		
<b>Co-operative Education</b>	Students who meet all requirements including teacher recommendation, grades, attendance, and discipline record		
<b>Homework</b>	7-10 assignments per marking period		
<b>Task List</b>	PDE Statewide Program of Study aligned with NIMS		
<b>Prerequisites</b>	Algebra 1		
<b>Reading Levels</b>	9 <sup>th</sup> grade		
<b>Math Levels</b>	Algebra 1, Geometry, and Trigonometry		
<b>Program Requirements and Related Costs</b>	Shop uniform (Lab coat and embroidered MCTI shirt) —\$55 Leather upper work boots—\$50 to \$150		
<b>Dual Enrollment</b>	Penn College NOW (up to 8 credits for qualified students)		
<b>Articulation Agreements</b>	Statewide Articulation Agreements Johnson College		
<b>Essential APTITUDES for this lab – Recommended levels</b>	Mechanical aptitude Good math skills		
<b>Work Environment</b>	Must be able to stand for long periods Some exposure to chemicals		