

Precision Machining Certificate

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NOTICE(s): For the certificate in Precision Machining, the student must complete at least 46 credit hours—at least 40 in technical courses and at least 6 in general education courses. Technical courses, which may vary to meet student needs and to provide options, must be selected from those listed above. Admission Requirement: High school diploma or GED. The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

Program: Precision Machining

Type: Certificate

Written Composition

Item #	Title	Credits
ENG 101	English Composition I	3
	Sub-Total Credits	3

Natural Sciences and Mathematics

Item #	Title	Credits
	MTH 100: Intermediate College Algebra OR numerically higher	3
	Sub-Total Credits	3

Technical Courses - Required

Item #	Title	Credits
MTT 121	Basic Print Reading for Machinists	3
MTT 139	Basic Computer Numerical Control	3
MTT 147	Introduction to Machine Shop I	3
MTT 148	Introduction to Machine Shop I Lab	3
ORI 101	Orientation to College	1
	Sub-Total Credits	13

Additional Coursework:

Choose 27 credit hours from the following list.

Item #	Title	Credits
CIS 146	Microcomputer Applications	3
	MDT 105 or DDT 104	3
MTT 107	Machining Calculations I	3
MTT 123	Engine Lathe Lab I	3
MTT 127	Metrology	3
MTT 128	Geometric Dimensioning and Tolerancing I	3
MTT 134	Lathe Operations I	3
MTT 137	Milling I	3
MTT 140	Basic Computer Numerical Control Turning Programming I	3
MTT 141	Basic Computer Numeric Control Milling Programming I	3
MTT 149	Introduction to Machine Shop II	3
MTT 150	Introduction to Machine Shop II Lab	3
MTT 154	Metallurgy	3
MTT 162	Precision Grinding	3
MTT 181	Special Topics in Machine Tool Technology	3
MTT 221	Advanced Blueprint Reading for Machinists	3
MTT 270	Machining Skills Application	3
MTT 286	Co-Op	1
MTT 288	Co-Op	2
MTT 291	Cooperative Education in Machine Tool Technology	3
SPH 106	Fundamentals of Oral Communication	3
	Sub-Total Credits	60
	Total credits:	46