



Program of Study: Precision Machining Certificate



Postsecondary/Secondary Partner(s): _____

Career Pathways: Manufacturing Production

Education Levels	Grade	Communication	Mathematics	Other Required Academic Courses (i.e. Science, Social Science)	Career and Technical Program Courses	Supplementary Course Recommendations (i.e. world language, entrepreneurship, etc)	Possibilities of careers relating to this Pathway
State Graduation Requirements: (URL to Page) www.cde.state.co.us/postsecondary/graduationguidelines							
MIDDLE	7						Manufacturing Production Technicians, Computer-Controlled Machine Tool Operators, Metal and Plastic, Industrial Engineering Technicians Manufacturing Engineering Technologists, Industrial Production Managers, Engine and Other Machine Assemblers, Machine Feeders and Off bearers, General and Operations Managers, Mechanical Engineers
	8						
High /Secondary	9	English I	Algebra I,	Earth or Environmental Science		World Language Physical Education	
	10	English II	Geometry	Biology, US History, Foreign Language I		Psychology, Physical Education,	
	11	English III	Algebra II	Chemistry, Foreign Language II		Speech/Communications, Physical Education	
	12	English IV	Trigonometry or other Math,	Botany or other lab based Science		Computer Applications	
	13 th year (ASCENT, P-TECH or other):						
High school courses in the pathway offered locally for college credit should be coded Concurrent Enrollment with CCNS Prefix and Number <weblink>							
List related Industry Certifications/credentials approved and offered locally: <insert credential/Industry certification name here>					Additional Learning Opportunities: CTSO organization(s): <input type="checkbox"/> DECA <input type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input type="checkbox"/> FFA <input type="checkbox"/> CCSA <input type="checkbox"/> HOSA <input type="checkbox"/> SkillsUSA <input type="checkbox"/> TSA <input type="checkbox"/> SC ²		
<this field> must have <this level> of training & learning:					Work-based Learning: <input type="checkbox"/> Career Research <input type="checkbox"/> Cooperative Education <input type="checkbox"/> Internship <input type="checkbox"/> Mentorship <input type="checkbox"/> Job Shadowing <input type="checkbox"/> Service Learning Project <input type="checkbox"/> Student Apprenticeship <input type="checkbox"/> Industry Certificate		
Postsecondary: CCPT Placement Assessment CLEP <weblink> Prior Learning Assessment (PLA) eligibility: <weblink> Acceleration Opportunities: AP: IB:					Other Graduation Requirements: <input type="checkbox"/> Capstone Project <input type="checkbox"/> Assessment (ACT, SAT, WorkKeys, ASVAB, Locally endorse, Other) <input type="checkbox"/> ICAP Quality Indicators <input type="checkbox"/> PWR Competencies		
POSTSECONDARY PROGRAMS							

		Industry Certificate	Certificate	Associates Degree	Bachelor's Degree	Advanced Degree												
			Machining Technology Welding	Machining Technology Welding	Mechanical Engineering Civil Engineering Industrial Engineering	Engineering Management Industrial and Systems Engineering Mechanical Engineering												
Insert Program Requirements for Entry: http://www.trinidadstate.edu/admissions Gainful Employment Link: http://trinidadstate.edu/gedt/GedtManufacturingTechnology/Gedt.html																		
POSTSECONDARY COMMUNITY COLLEGE	Semester	CTE Sequence of Courses			General Education (Sequence of Courses)													
	Year 1 1 st Semester	MAC 110 Introduction to the Engine Lathe MAC 111 Intermediate Engine Lathe MAC 120 Introduction to Milling Machine MAC 201 Introduction to CNC Turning Operations	MAC 205 Introduction to CNC Milling Operations MAC 240 CAD/CAM 2D MAN 125 Team Building OSH 127 10 HR Construction Industry Standards															
	Year 1 2 nd Semester	MAC 112 Advanced Engine Lathe MAC 121 Intermediate Milling Machine MAC 122 Advanced Milling Machine Operations	MAC 202 CNC Turning Operations II MAC 206 CNC Milling Operations II MAC 245 CAD/CAM 3D															
	Year 2 1 st Semester																	
	Year 2 2 nd Semester																	
	Advanced Degree(s)	University/College: Degree or Major: Number of Articulated CC Credits: <insert link to Articulation Agreements> Alignment to ICAP Process and outcome(if applicable):																
Symbols/Codes: Legend: (this POS is coded for the following) <table style="width:100%; border:none;"> <tr> <td style="width:33%;">+ GT Pathway</td> <td style="width:33%;">o ICAP Quality Indicator Shown</td> <td style="width:33%;">~ Concurrent Enrollment</td> <td style="width:33%;">/ IB</td> </tr> <tr> <td>* Hot career field</td> <td>- PWR Competencies Shown</td> <td>x Badge</td> <td>< AP</td> </tr> <tr> <td>^ Special Pops/ACE</td> <td>@ AVID</td> <td></td> <td></td> </tr> </table>							+ GT Pathway	o ICAP Quality Indicator Shown	~ Concurrent Enrollment	/ IB	* Hot career field	- PWR Competencies Shown	x Badge	< AP	^ Special Pops/ACE	@ AVID		
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Signatures:

_____ (Postsecondary) _____ Secondary _____ Date