

Program Name: Engine Technology
Program Number: 10-602-2
Required DML: Portfolio Artifacts

Student Name:
MPTC Six-Digit Student ID #:
Semester of Program Acceptance:

*** At Least One Artifact Is Required For Each Learner Outcome Listed Below ***

Directions: In columns A and B, enter dates when items are completed. Check Column C if transcript is used. Electronic format is recommended for portfolio development. **Note:** Keep original portfolio. Submit copy only.

Your Student Portfolio will be evaluated by educators and advisory committee members and becomes the property of Moraine Park Technical College.

	Contact Course Instructor If No Artifact Is Listed In This Column Suggested Work Sample from Performance Asmt	ARTIFACT		
		A Work Sample Linked to Outcome	B Self Assessment/ Reflection Statement	C Transcript Used
EXIT LEARNING OUTCOMES				
Program Learner Outcomes				
Complete the assembly and disassembly processes for small internal combustion engines.	Engine Testing			
602-164 Engine Fundamentals	Comprehensive Report *			
602-168 Engine Testing & Testing Equipment				
Develop plans and procedures for engine modification.	"			
420-131 Machining, Principles of	Engine Performance			
602-168 Engine Testing & Testing Equipment				
602-170 Engine Problems				
623-162 Manufacturing Processes 1				
623-163 Manufacturing Processes 2	Comprehensive Report			
Evaluate engine and drivetrain components.	"			
602-164 Engine Fundamentals				
602-168 Engine Testing & Testing Equipment				
602-172 Transmission of Power				
Evaluate engine performance.	Engine Problems			
602-168 Engine Testing & Testing Equipment	Comprehensive Report *			
602-169 Engine Emission Testing and Controls				
Prepare professional report(s).	"			
602-168 Engine Testing & Testing Equipment	Engine Performance			
602-170 Engine Problems				
Operate advanced engine evaluation equipment.	"			
602-169 Engine Emission Testing and Controls				
602-150 Electronics and Instrumentation	Engine Performance			
602-170 Engine Problems				
602-155 Ignition Fuels and Combustion	* These two reports			
602-168 Engine Testing & Testing Equipment	cover all outcomes			

		ARTIFACT		
		A	B	C
		Work Sample Linked to Outcome	Self Assessment/ Reflection	Transcript Used
General Education Learner Outcomes		Suggested Work Sample from Performance Asmt		
Perform mathematical calculations.				
804-175 Technical Math 1 AND				
804-176 Technical Math 2 AND				
804-177 Technical Math 3 AND				
804-178 Technical Math 4 AND				
806-151 Technical Science 1				
Determine mathematical concepts needed to solve an application.				
804-175 Technical Math 1 AND				
804-176 Technical Math 2 AND				
804-177 Technical Math 3 AND				
804-178 Technical Math 4 AND				
806-151 Technical Science 1				
Apply technical principles of physics in scientific and industrial settings.				
806-151 Technical Science 1				
Apply organizational and stylistic strategies to fit subject, audience, and purpose in communication.				
801-195 Written Communication AND				
801-196 Oral / Interpersonal Communication OR 801-197 Technical Reporting				
OR 801-198 Speech				
Evaluate content, organization, supporting materials, credibility, and style of communication for decision-making.				
801-196 Oral / Interpersonal Communication OR 801-197 Technical Reporting				
OR 801-198 Speech				
Apply the foundational elements of economic reasoning to personal and business decision-making.				
809-195 Economics				
Examine the complexities of society from a sociological perspective.				
809-196 Introduction to Sociology				
Apply psychological principles to personal and professional relationships.				
809-199 Psychology of Human Relations				
OR				
Determine the impact of psychological and social factors have in shaping human behavior.				
809-198 Introduction to Psychology				
Core Abilities				
Complete a Core Abilities self-assessment reflection.				
890-125 Student Success				
Complete reflection essays on Core Abilities and Occupational Skills development.				
890-130 Career Development				
Work Cooperatively				
Complete assigned tasks for team/group work.				
Use collaborative strategies to complete tasks.				
Exchange information, ideas, and opinions in a team/group setting.				
Show evidence of respect for diversity.				
Act Responsibly				
Complete assigned tasks according to prescribed deadlines.				
Complete assigned tasks according to prescribed criteria.				
Adhere to established attendance criteria.				

		ARTIFACT		
		A	B	C
		Work Sample Linked to Outcome	Self Assessment/ Reflection	Transcript Used
Core Abilities (continued)		Suggested Work Sample from Performance Asmt		
Value Self Positively				
<i>Adapt hygiene and appearance to requirements of work and educational environment.</i>				
<i>Identify personal strengths and areas for improvement.</i>				
<i>Exchange information, ideas, and opinions in a team/group setting.</i>				
<i>Show evidence of respect for diversity.</i>				
Think Critically and Creatively				
<i>Distinguish between fact and opinion.</i>				
<i>Synthesize information from a variety of sources.</i>				
<i>Use problem-solving and decision-making strategies.</i>				
<i>Apply global perspective to decisions and actions.</i>				
Communicate Clearly				
<i>Use bias-free language.</i>				
<i>Use language that is free of obscenities.</i>				
<i>Apply listening skills.</i>				
<i>Apply standard rules of language structure including grammar, spelling, and punctuation.</i>				
Work Productively				
<i>Complete assigned tasks according to established conditions.</i>				
<i>Evaluate work using established criteria.</i>				
Learn Effectively				
<i>Use resources to meet learning needs.</i>				
<i>Organize information.</i>				
<i>Produce evidence of learning.</i>				