

Program Name: Electromechanical Technology
Program Number: 10-620-1
Required DML: Capstones

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.

	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				
Design an electro-mechanical process control system.	Project Proposal *			
620-133 <i>Electromechanical Controls</i>				
620-146 <i>Industrial Control Systems</i>				
612-103 <i>Industrial Hydraulics / Pneumatics 1</i>				
620-149 <i>Microprocessor Applications</i>				
620-135 <i>Programmable Controller</i>				
620-151 <i>Servomechanisms</i>				
Interpret electro-mechanical process control drawings.	"			
620-115 <i>AC-DC Machinery</i>				
620-133 <i>Electromechanical Controls</i>				
620-146 <i>Industrial Control Systems</i>				
612-103 <i>Industrial Hydraulics / Pneumatics 1</i>				
620-151 <i>Servomechanisms</i>				
Identify electro-mechanical process control components.	"			
620-102 <i>AC Circuits</i>				
620-115 <i>AC-DC Machinery</i>				
620-101 <i>DC Circuits</i>				
620-104 <i>Digital Electronics</i>				
620-133 <i>Electromechanical Controls</i>				
620-146 <i>Industrial Control Systems</i>				
612-103 <i>Industrial Hydraulics / Pneumatics 1</i>				
620-149 <i>Microprocessor Applications</i>				
620-128 <i>Operational Amplifiers</i>				
620-135 <i>Programmable Controller</i>				
620-103 <i>Semi-Conductor Devices</i>				
620-151 <i>Servomechanisms</i>				
Erect an electro-mechanical process control system.	Final Project Report *			
620-146 <i>Industrial Control Systems</i>				
612-103 <i>Industrial Hydraulics / Pneumatics 1</i>				

		ARTIFACT		
		A	B	C
		Work Sample Linked to Outcome	Self Assessment/ Reflection	Used
Program Learner Outcomes (continued)		Artifact Is Listed In This Column		
		Suggested Work Sample from Performance Asmt		
Program an electro-mechanical process control system.		Final Project Report *		
620-146 Industrial Control Systems				
612-103 Industrial Hydraulics / Pneumatics 1				
620-135 Programmable Controller				
Troubleshoot electro-mechanical process control systems.		"		
620-115 AC-DC Machinery				
620-133 Electromechanical Controls				
620-146 Industrial Control Systems				
612-103 Industrial Hydraulics / Pneumatics 1				
620-135 Programmable Controller				
620-151 Servomechanisms				
Demonstrate use of test instruments.		"		
620-101 DC Circuits				
620-104 Digital Electronics				
612-103 Industrial Hydraulics / Pneumatics 1				
620-128 Operational Amplifiers		* These two artifacts cover all outcomes		
620-103 Semi-Conductor Devices				
General Education Learner Outcomes				
Apply organizational and stylistic strategies to fit subject, audience, and purpose in communication.				
801-195 Written Communication				
801-197 Technical Reporting				
Evaluate content, organization, supporting materials, credibility, and style of communication for decision-making.				
801-197 Technical Reporting				
Determine mathematical concepts needed to solve an application.				
804-165 Math - Electronics Unit 1				
804-166 Math - Electronics Unit 2				
804-167 Math - Electronics Unit 3				
Apply psychological principles to personal and professional relationships.				
809-199 Psychology of Human Relations				
Perform mathematical calculations.				
806-155 Technical Physics				
Determine mathematical concepts needed to solve an application.				
806-155 Technical Physics				
Apply technical principles of physics in scientific and industrial settings.				
806-155 Technical Physics				
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				

	Artifact Is Listed In This Column	ARTIFACT		
		A Work Sample Linked to Outcome	B Self Assessment/ Reflection	C Used
Core Abilities	Suggested Work Sample from Performance Asmt			
Complete a Core Abilities self-assessment reflection. <i>890-125 Student Success</i>				
Complete reflection essays on Core Abilities and Occupational Skills development. <i>890-130 Career Development</i>				
Work Cooperatively				
<i>Complete assigned tasks for team/group work.</i>				
<i>Use collaborative strategies to complete tasks.</i>				
<i>Exchange information, ideas, and opinions in a team/group setting.</i>				
<i>Show evidence of respect for diversity.</i>				
Act Responsibly				
<i>Complete assigned tasks according to prescribed deadlines.</i>				
<i>Complete assigned tasks according to prescribed criteria.</i>				
<i>Adhere to established attendance criteria.</i>				
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>				