

**PORTFOLIO WORKSHEET**  
**2004-2005**
**Program Name:** Tool and Die Designer  
**Program Number:** 10-617-1  
**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.

		ARTIFACT		
		A	B	C
Suggested Work Sample from Performance Asmt	Work Sample Linked to Outcome	Self Assessment/ Reflection Statement	Transcript Used	
<b>EXIT LEARNING OUTCOMES</b>				
<b>Program Learner Outcomes</b>				
Design jigs and fixtures.	H-16 Drawing			
617-145 Machining Techniques, Basic	Plate Milling Fixture Design			
617-110 Computer Aided Design / Drafting - AutoCAD				
617-141 Computer Aided Manufacturing				
617-160 Geometric Dimensioning - Tolerancing				
617-150 Material Selection				
804-175 Technical Math 1				
804-176 Technical Math 2				
Design molds dies.	Core & Cavity Project			
617-145 Machining Techniques, Basic	Slide Mold Design			
617-110 Computer Aided Design / Drafting - AutoCAD	Core & Cavity Splits			
617-141 Computer Aided Manufacturing				
617-125 Blanking and Compound Die Design				
617-126 Progressive Bend and Draw Die Design				
617-120 Die Making Processes				
617-160 Geometric Dimensioning - Tolerancing				
617-150 Material Selection				
804-175 Technical Math 1				
804-176 Technical Math 2				
617-135 Two and Three Plate Mold Design				
617-136 Side Action and Hot Runner Mold Design				
617-130 Mold Making Processes				
Design stamping dies.	Progressive Bending and			
617-145 Machining Techniques, Basic	Site Cam Die Design			
617-110 Computer Aided Design / Drafting - AutoCAD				
617-141 Computer Aided Manufacturing				
617-120 Die Making Processes				
617-160 Geometric Dimensioning - Tolerancing				
617-150 Material Selection				
617-125 Blanking and Compound Die Design				
617-126 Progressive Bend and Draw Die Design				
804-175 Technical Math 1				
804-176 Technical Math 2				

		ARTIFACT		
		A	B	C
		Work Sample Linked to Outcome	Self Assessment/ Reflection	Transcript Used
<b>Program Learner Outcomes (continued)</b>		<b>Suggested Work Sample from Performance Asmt</b>		
Develop detailed working drawings.		Detail Die Component		
617-110 Computer Aided Design / Drafting - AutoCAD		Assignment		
617-141 Computer Aided Manufacturing				
617-125 Blanking and Compound Die Design				
617-126 Progressive Bend and Draw Die Design				
617-120 Die Making Processes				
617-115 Jig and Fixture Design				
617-135 Two and Three Plate Mold Design				
617-136 Side Action and Hot Runner Mold Design				
Generate internal and external reports.		Alloy Parameter Report and Presentation		
617-125 Blanking and Compound Die Design				
617-126 Progressive Bend and Draw Die Design				
617-120 Die Making Processes		Final Mold Design		
617-160 Geometric Dimensioning - Tolerancing		Presentation		
617-115 Jig and Fixture Design				
617-135 Two and Three Plate Mold Design				
617-136 Side Action and Hot Runner Mold Design				
Interpret part drawings.				
617-110 Computer Aided Design / Drafting - AutoCAD		Hanger - Single Bearing		
617-141 Computer Aided Manufacturing		Drawing		
617-125 Blanking and Compound Die Design				
617-126 Progressive Bend and Draw Die Design		Stationary Hub Drawing		
617-120 Die Making Processes				
617-160 Geometric Dimensioning - Tolerancing				
617-115 Jig and Fixture Design				
617-150 Material Selection				
616-130 Mold Making Process				
617-135 Two and Three Plate Mold Design				
617-136 Side Action and Hot Runner Mold Design				
Provide CAD geometry for conversion to Numerical Control Machine Language.		Mill Exercise Project #6		
617-141 Computer Aided Manufacturing				
617-125 Blanking and Compound Die Design		Frisbee Core Project		
617-126 Progressive Bend and Draw Die Design				
617-120 Die Making Processes				
617-160 Geometric Dimensioning - Tolerancing		Student Initial Assignment		
617-115 Jig and Fixture Design				
617-135 Two and Three Plate Mold Design				
617-136 Side Action and Hot Runner Mold Design				
<b>General Education Learner Outcomes</b>				
Apply organizational and stylistic strategies to fit subject, audience, and purpose in communication.				
801-195 Written Communication				
801-197 Technical Reporting				

	Contact Course Instructor If No Artifact Is Listed In This Column	ARTIFACT		
		A Work Sample Linked to Outcome	B Self Assessment/ Reflection	C Transcript Used
<b>General Education Learner Outcomes (continued)</b>	<b>Suggested Work Sample from Performance Asmt</b>			
Evaluate content, organization, supporting materials, credibility, and style of communication for decision-making. <i>801-197 Technical Reporting</i>				
Perform mathematical calculations. <i>804-175 Technical Math 1</i> <i>804-176 Technical Math 2</i>				
Determine mathematical concepts needed to solve an application. <i>804-175 Technical Math 1</i> <i>804-176 Technical Math 2</i>				
Examine the complexities of society from a sociological perspective. <i>809-196 Introduction to Sociology</i>				
Apply the foundational elements of economic reasoning to personal and business decision-making. <i>809-195 Economics</i>				
Determine the impact of psychological and social factors have in shaping human behavior. <i>809-198 Introduction to Psychology</i>				
Apply psychological principles to personal and professional relationships. <i>809-199 Psychology of Human Relations</i>				
<b>Core Abilities</b>				
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>				

		ARTIFACT		
Core Abilities (continued)	Contact Course Instructor If No Artifact Is Listed In This Column	A	B	C
	Suggested Work Sample from Performance Asmt	Work Sample Linked to Outcome	Self Assessment/ Reflection	Transcript Used
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>				