

**MORAINE PARK TECHNICAL COLLEGE  
PORTFOLIO WORKSHEET/VERIFICATION CHECKLIST  
2005-2006**

**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 learning outcome \* \* \*

**Directions:** In columns A and B, student enters dates when items are completed or checks Column C if transcript is used for advanced standing credits. Verifier initials column D when portfolio is verified for graduation requirement. Submit a signed copy (see last page) of this form with a copy of your portfolio for verification. Note: Keep original portfolio; submit a copy.

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Suggested Work Sample from Performance Asmt</b>	<b>Work Sample Linked to Outcome</b>	<b>Reflection Statement</b>	<b>Transcript Used</b>	<b>Verified</b>

<b>Program Learning Outcomes</b>				
<b>Design jigs and fixtures.</b>				
<i>617-145 Machining Techniques, Basic</i>	H-16 Drawing			
<i>617-110 Computer Aided Design / Drafting - AutoCAD</i>	Plate Milling Fixture Design			
<i>617-141 Computer Aided Manufacturing</i>				
<i>617-160 Geometric Dimensioning - Tolerancing</i>				
<i>617-150 Material Selection</i>				
<i>804-175 Technical Math 1</i>				
<i>804-176 Technical Math 2</i>				
<b>Design molds dies.</b>				
<i>617-145 Machining Techniques, Basic</i>	Core & Cavity Project			
<i>617-110 Computer Aided Design / Drafting - AutoCAD</i>	Slide Mold Design			
<i>617-141 Computer Aided Manufacturing</i>	Core & Cavity Splits			
<i>617-125 Blanking and Compound Die Design</i>				
<i>617-126 Progressive Bend and Draw Die Design</i>				
<i>617-120 Die Making Processes</i>				
<i>617-160 Geometric Dimensioning - Tolerancing</i>				
<i>617-150 Material Selection</i>				
<i>804-175 Technical Math 1</i>				
<i>804-176 Technical Math 2</i>				
<i>617-135 Two and Three Plate Mold Design</i>				
<i>617-136 Side Action and Hot Runner Mold Design</i>				
<i>617-130 Mold Making Processes</i>				

Continued

		ARTIFACT			
		A	B	C	D
		Work Sample Linked to Outcome	Reflection Statement	Transcript Used	Verified
Program Learning Outcomes (continued)		Suggested Work Sample from Performance Asmt			
Design stamping dies.					
617-145 Machining Techniques, Basic	Progressive Bending &				
617-110 Computer Aided Design / Drafting - AutoCAD	Site Cam Die Design				
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					
Develop detailed working drawings.					
617-110 Computer Aided Design / Drafting - AutoCAD	Detail Die Component				
617-141 Computer Aided Manufacturing	Assignment				
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.					
617-125 Blanking and Compound Die Design.	Alloy Parameter Report				
617-126 Progressive Bend and Draw Die Design	and Presentation				
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.					
Provide CAD geometry for conversion to Numerical Control Machine Language.					
617-141 Computer Aided Manufacturing	Mill Exercise Project #6				
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>Continued</b>					

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

--

<b>Core Abilities</b>					
<i>890-125 Student Success</i> <b>AND</b>	Core Ability Inventory				
<i>890-130 Career Development</i>	Core Ability Inventory and Self-assessment Reflection  <b>AND</b> Reflection essay "How I've Changed: Then and Now"				

**LEARNER:**  
 I understand that this portfolio will be evaluated by educators and advisory committees and becomes the property of Moraine Park Technical College.

**VERIFIER:**  
 After verification is complete, forward portfolio to the **Outcome Assessment Office.**

The contents of this portfolio  
 \_\_\_\_\_ **MAY** \_\_\_\_\_ **MAY NOT** \_\_\_\_\_  
 be displayed to other students and the general public.

\_\_\_\_\_  
**Signature of Learner** **Date**

\_\_\_\_\_  
**Signature of Verifier** **Date**