

**MORAINÉ PARK TECHNICAL COLLEGE
PROGRAM OUTCOMES WORKSHEET
2009-2010**

Program Name: CNC/Tool and Die Technologies
Program Number: 32-444-2
Required Exit Assessment: Summative Program Review

Student Name:
MPTC Student ID #:
Semester of Program Acceptance:

Program Learning Outcomes			
Build a mold die (Tool and Die Making track only)			
<i>439-335 Single Cavity Mold Making</i>			
<i>439-336 Single Cavity Mold Making Applications</i>	Opener Mold		
<i>439-337 Multi-Cavity Mold Making</i>			
<i>439-338 Multi-Cavity Mold Making Applications</i>	Team Mold		
Build jigs and fixtures			
<i>439-304 Jigs and Fixtures</i>	Fixture or Jig		
Build stamping dies (Tool and Die Making track only)			
<i>439-325 Pierce and Blank Die Making</i>			
<i>439-326 Pierce and Blank Die Making Applications</i>	1st Die, Blue Print 2nd Die		
<i>439-327 Compound and Progressive Die Making</i>			
<i>439-328 Compound and Progressive Die Making Applications</i>	2nd Die, Group Die		
Determine the effects of material type on machining			
<i>617-150 Material Selection</i>	Research Paper on Tooling and Machining Techniques		
<i>444-360 Machining Center Operation</i>	Precision Vise		
<i>444-370 Turning Center Operation</i>	Chess Pieces		
<i>444-380 EDM (Electrical Discharge Machine) and Nonconventional Machining</i>	Flue		
Identify materials used in all facets of tool and die making			
<i>617-150 Material Selection</i>	Research Paper on Tooling and Machining Techniques		
Interpret part drawings			
<i>439-398 Mold and Die Print Reading</i>	Basic Machining App Projects, 1-2-3 Blocks V Block Base		
Measure precision parts (Advanced applications for CNC track)			
<i>444-332 Coordinate Measuring Machines (CMM) Programming, Introduction to</i>	CMM Test Block		
<i>444-333 Basics of Metrology</i>	Micrometer L.D.		

Operate CADD systems			
444-345 Design for 3D Machining	Business Card Holder		
617-116 AutoCAD, Beginning Level	Drawing H12		
Operate CAM systems			
439-339 Computer-Aided Machining (CAM) 2D - Surfcam	Chess Board		
444-340 Computer-Aided Machining 2D - Part 2	Wishbone		
444-341 Computer-Aided Machining 3D	High Speed 1		
Operate computer numerical control machine tools (Advanced applications for CNC track)			
444-360 Machining Center Operation	Setup Blocks		
444-370 Turning Center Operation	Chess Pieces		
444-380 EDM (Electrical Discharge Machine) and Nonconventional Machining	Name Plates		
Operate conventional machine tools			
439-310 Machining, Basic			
439-311 Machining Applications, Basic	Basic Machining App Projects, 1-2-3 Blocks V Block Base		
439-312 Machining Technologies			
439-313 Machining Technologies Applications	Tap Guide Block		
Program computer numerical control machine tools			
444-332 Coordinate Measuring Machines (CMM) Programming, Introduction tc	CMM Test Block		
444-351 Machining Center Programming	CMM Test Block		
444-371 Turning Center Programming	Chess Pieces		
444-380 EDM (Electrical Discharge Machine) and Nonconventional Machining	Flue & Name Plate		
Set up computer numerical control machine tools (Advanced applications for CNC track)			
439-326 Pierce and Blank Die Making Applications			
439-328 Compound and Progressive Die Making Applications			
444-332 Coordinate Measuring Machines (CMM) Programming, Introduction tc	CMM Test Block		
439-336 Single Cavity Mold Making Applications			
439-338 Multi-Cavity Mold Making Applications			
444-350 Basic Programming	Project II		
444-360 Machining Center Operation	Setup Blocks		
444-370 Turning Center Operation	Chess Pieces		
444-380 EDM (Electrical Discharge Machine) and Nonconventional Machining	Fluer & Name Plate		

Set up conventional machine tools			
439-311 <i>Machining Applications, Basic</i>	Basic Machining App Projects, 1-2-3 Blocks Tap Guide Blocks		
439-312 <i>Machining Technologies</i>			
439-313 <i>Machining Technologies Applications</i>			
439-326 <i>Pierce and Blank Die Making Applications</i>	V-Block Base		
439-328 <i>Compound and Progressive Die Making Applications</i>			
439-336 <i>Single Cavity Mold Making Applications</i>			
439-338 <i>Multi-Cavity Mold Making Applications</i>			
801-310 <i>Occupational Communication</i> OR 801-196 <i>Oral and Interpersonal Communications</i>			
Core Abilities			
890-125 <i>Student Success</i> AND 890-130 <i>Career Development</i>	Core Ability Inventory Core Ability Inventory and Self-assessment Reflection AND Reflection essay "How I've Changed: Then and Now"		