

**MORAINE PARK TECHNICAL COLLEGE
PROGRAM OUTCOMES WORKSHEET
2008-2009**

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

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