

PORTFOLIO WORKSHEET
2004-2005

Program Name: Computer Aided Manufacturing Technician
Program Number: 10-628-4
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 |
| Contact Course Instructor If No Artifact Is Listed In This Column | Work Sample Linked to Outcome | Self Assessment/ Reflection Statement | Transcript Used |
| Suggested Work Sample from Performance Asmt | | | |
| EXIT LEARNING OUTCOMES | | | |
| Program Learner Outcomes | | | |
| Complete the process of setting up, operating, and program CNC equipment. | | | |
| 628-122 Computer Numerical Control 1 | Set-up Instructions | | |
| 628-132 Computer Numerical Control 2 | CNC Mill Project | | |
| 628-142 Computer Aided Manufacturing | CNC Lathe Project | | |
| Complete the process of setting up, operating, and program robotic equipment. | | | |
| 628-133 Robotics and Automated Material Handling | Robotic Cell Layout | | |
| Justify equipment purchasing. | | | |
| 628-133 Robotics and Automated Material Handling | Written Report | | |
| Use computer aided drafting software. | | | |
| 623-129 Computer Aided Drafting 1 | Portfolio of Drawings | | |
| 628-131 Advanced CAD - Pro Engineering | | | |
| Use computer aided machining software. | | | |
| 628-142 Computer Aided Manufacturing | Toolpath, Program | | |
| Use various manufacturing processes. | | | |
| 623-162 Manufacturing Processes 1 | Mill Project | | |
| 623-163 Manufacturing Processes 2 | Lathe Project | | |
| Verify part attributes. | | | |
| 628-132 Computer Numerical Control 2 | Worksheets | | |
| 628-142 Computer Aided Manufacturing | CMM Report | | |
| 623-162 Manufacturing Processes 1 | | | |
| General Education Learner Outcomes | | | |
| Apply organizational and stylistic strategies to fit subject, audience, and purpose in communication. | | | |
| 801-195 Written Communication AND | | | |
| 801-196 Oral / Interpersonal Communication | | | |
| Evaluate content, organization, supporting materials, credibility, and style of communication for decision-making. | | | |
| 801-196 Oral / Interpersonal Communication | | | |

| | | ARTIFACT | | |
|---|--|--|-----------------------------------|-----------------|
| | | A | B | C |
| | | Work Sample Linked to Outcome | Self Assessment/ Reflection | Transcript Used |
| General Education Learner Outcomes (continued) | | Suggested Work Sample from Performance Asmt | | |
| Perform mathematical calculations. | | | | |
| 804-175 Technical Math 1 AND | | | | |
| 804-176 Technical Math 2 AND | | | | |
| 804-177 Technical Math 3 AND | | | | |
| 804-178 Technical Math 4 | | | | |
| 806-155 Technical Physics | | | | |
| Determine mathematical concepts needed to solve an application. | | | | |
| 804-175 Technical Math 1 AND | | | | |
| 804-176 Technical Math 2 AND | | | | |
| 804-177 Technical Math 3 AND | | | | |
| 804-178 Technical Math 4 | | | | |
| 806-155 Technical Physics | | | | |
| Apply technical principles of physics in scientific and industrial settings. | | | | |
| 806-155 Technical Physics | | | | |
| 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 | | | | |
| Apply psychological principles to personal and professional relationships. | | | | |
| 809-199 Psychology of Human Relations | | | | |
| | | | | |
| Core Abilities | | | | |
| Complete a Core Abilities self-assessment reflection. | | | | |
| 890-125 Student Success | | | | |
| Complete reflection essays on Core Abilities and Occupational Skills development. | | | | |
| 890-130 Career Development | | | | |
| Work Cooperatively | | | | |
| Complete assigned tasks for team/group work. | | | | |
| Use collaborative strategies to complete tasks. | | | | |
| Exchange information, ideas, and opinions in a team/group setting. | | | | |
| Show evidence of respect for diversity. | | | | |
| Act Responsibly | | | | |
| Complete assigned tasks according to prescribed deadlines. | | | | |
| Complete assigned tasks according to prescribed criteria. | | | | |
| Adhere to established attendance criteria. | | | | |
| Value Self Positively | | | | |
| Adapt hygiene and appearance to requirements of work and educational environment. | | | | |
| Identify personal strengths and areas for improvement. | | | | |
| Exchange information, ideas, and opinions in a team/group setting. | | | | |
| Show evidence of respect for diversity. | | | | |
| (continued on next page) | | | | |

| | | 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 |
| 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> | | | | |