

**Program Name:** Water Quality Technician  
**Program Number:** 10-527-2  
**Required DML:** Portfolio/Artifacts and/or Internship

**Student Name:**  
**MPTC Six-Digit Student ID #:**  
**Semester of Program Acceptance:**

**\*Choose only 1 or 2 artifacts per Learner Outcome to include in Assessment Portfolio.**

**Directions:** Your completed Assessment Portfolio is a requirement for graduation. Use this Worksheet as you gather artifacts for the required Direct Measures of Learning (DML) in your program. Use columns A and B to enter dates or titles of work that show evidence of your skills and abilities. In column C; use the following key to document the type(s) of evidence you will use to demonstrate growth and/or progress: 1 = Artifact from other coursework, 2 = Integrated in reflection, 3 = Draft or first effort at required DML, 4 = Other (specify). **Note:** These criteria will be used to verify your portfolio at the time of graduation.

|   | <b>A</b>                          | <b>B</b>                    | <b>C</b>                           |
|---|-----------------------------------|-----------------------------|------------------------------------|
| Contact Course Instructor If No Artifact Is Listed In This Column.<br><b>SUGGESTED ARTIFACT*</b>      | <b>Artifact Linked to Outcome</b> | <b>Reflection Statement</b> | <b>Evidence of Growth/Progress</b> |
| <b>EXIT LEARNING OUTCOMES</b>   |                                   |                             |                                    |
| <b>Program Learner Outcomes</b>   |                                   |                             |                                    |
| Modify an operational procedure at a water treatment facility.  | Comprehensive                     |                             |                                    |
| <i>527-131 Water Supply 2 (OR)</i>  | Project                           |                             |                                    |
| <i>527-171 Water Quality Internship</i>   |                                   |                             |                                    |
| Modify an operational procedure at a waste treatment facility.  | Comprehensive                     |                             |                                    |
| <i>527-103 Treatment Process 1 (OR)</i>   | Project                           |                             |                                    |
| <i>527-171 Water Quality Internship</i>   |                                   |                             |                                    |
| Modify a maintenance program for a water treatment facility.  | Comprehensive                     |                             |                                    |
| <i>527-131 Water Supply 2 (AND)</i>   | Project                           |                             |                                    |
| <i>527-135 Process Equipment Maintenance</i>  |                                   |                             |                                    |
| Modify a maintenance program for a waste treatment facility.  | Comprehensive                     |                             |                                    |
| <i>527-100 Introduction to Treatment Processes (OR)</i>   | Project                           |                             |                                    |
| <i>527-135 Process Equipment Maintenance</i>  |                                   |                             |                                    |
| Determine flow in a hydraulic design.   | Comprehensive                     |                             |                                    |
| <i>527-120 Hydraulics of Water/Wastewater</i>   | Project                           |                             |                                    |
| Design an industrial waste treatment strategy.  | Comprehensive                     |                             |                                    |
| <i>527-125 Industrial Wastes</i>  | Project                           |                             |                                    |
| <b>General Education Learner Outcomes</b>   |                                   |                             |                                    |
| Apply organizational and stylistic strategies to fit subject, audience, and purpose in communication. |                                   |                             |                                    |
| <i>801-195 Written Communication</i>  |                                   |                             |                                    |
| <i>801-196 Oral / Interpersonal Communication</i>   |                                   |                             |                                    |
| <i>801-197 Technical Reporting</i>  |                                   |                             |                                    |
| <i>801-198 Speech</i>   |                                   |                             |                                    |
| Apply psychological principles to personal and professional relationships.                            |                                   |                             |                                    |
| <i>809-199 Psychology of Human Relations</i>  |                                   |                             |                                    |
| <i>809-198 Introduction to Psychology</i>   |                                   |                             |                                    |
| Apply the foundational elements of economic reasoning to personal and business decision-making.       |                                   |                             |                                    |
| <i>809-195 Economics</i>  |                                   |                             |                                    |
| Determine mathematical concepts needed to solve an application.                                       |                                   |                             |                                    |
| <i>804-174 Technical Math</i>   |                                   |                             |                                    |

| General Education Learner Outcomes (cont.)   | Suggested Artifact | Artifact Linked to Outcome | Reflection Statement | Evidence of Growth/Progress |
|--|--------------------|----------------------------|----------------------|-----------------------------|
| Determine the impact of psychological and social factors have in shaping human behavior.                           |                    |                            |                      |                             |
| <i>809-196 Introduction to Sociology</i>   |                    |                            |                      |                             |
| <i>809-199 Psychology of Human Relations</i>   |                    |                            |                      |                             |
| Evaluate content, organization, supporting materials, credibility, and style of communication for decision-making. |                    |                            |                      |                             |
| <i>801-196 Oral / Interpersonal Communication</i>  |                    |                            |                      |                             |
| <i>801-197 Technical Reporting</i>   |                    |                            |                      |                             |
| <i>801-198 Speech</i>  |                    |                            |                      |                             |
| Examine the complexities of society from a sociological perspective.   |                    |                            |                      |                             |
| <i>809-196 Introduction to Sociology</i>   |                    |                            |                      |                             |
| <i>809-198 Introduction to Psychology</i>  |                    |                            |                      |                             |
| Perform mathematical calculations.   |                    |                            |                      |                             |
| <i>804-174 Technical Math</i>  |                    |                            |                      |                             |
|  |                    |                            |                      |                             |
| <b>Elective OR Other Courses (course number and title)</b>   |                    |                            |                      |                             |
|  |                    |                            |                      |                             |
|  |                    |                            |                      |                             |
|  |                    |                            |                      |                             |
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|  |                    |                            |                      |                             |
| <b>Core Abilities    Indicate    _____ Inventory and/or    _____ Integrated in Reflections</b>                     |                    |                            |                      |                             |
| 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>  |                    |                            |                      |                             |
|  |                    |                            |                      |                             |
|  |                    |                            |                      |                             |
|  |                    |                            |                      |                             |

| <b>Core Abilities (cont.)</b>   | <b>Suggested Artifact</b> | <b>Artifact Linked to Outcome</b> | <b>Reflection Statement</b> | <b>Evidence of Growth/ Progress</b> |
|---|---------------------------|-----------------------------------|-----------------------------|-------------------------------------|
| 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>  |                           |                                   |                             |                                     |