

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
WATER RESOURCES DIVISION

**MUNICIPAL WASTEWATER TREATMENT PLANT
OPERATOR CERTIFICATION**

Board Approved Semester Hour Equivalent (SHE) Courses

| | | | |
|---|------|------|--------|
| Gary Wozniak Contact gary.wozniak@lbwl.com or 269-762-0514 | Sci. | Eng. | Admin. |
| Basic Chemistry | 3 | NA | NA |

| | | | |
|---|------|------|--------|
| California State Univ, Sacramento Contact: wateroffice@owp.csus.edu or 916-278-6142 | Sci. | Eng. | Admin. |
| Wastewater Collection System (Vol I and II) | NA | 3 | NA |
| Utility Management | NA | NA | 4.5 |
| Wastewater Treatment – Vol I | 1 | 1 | 1 |
| Wastewater Treatment – Vol II | 1 | 1 | 1 |
| Wastewater Treatment – Advanced | 1 | 1 | 1 |
| Manage for Success | NA | NA | 2 |

| | | | |
|---|------|------|--------|
| Michigan State University Contact: epd@broad.msu.edu or 517-353-8711 | Sci. | Eng. | Admin. |
| Effective Communication in the Municipal Environment | NA | NA | 3 |
| Maintenance Management | NA | NA | 2 |
| Supervisory Management | NA | NA | 4 |

| | | | |
|---|------|------|--------|
| Michigan Water Environment Association (MWEA) Contact: mwea@mi-wea.org or 517-641-7377 | Sci. | Eng. | Admin. |
| Activated Sludge I & II (Both courses required) | NA | 1 | NA |
| Preliminary, Primary and Secondary Treatment, and Tertiary Disinfection (Both courses required) | NA | 1.1 | NA |

| | | | |
|--|------|------|--------|
| Technical Learning College Contact: info@tlch20.com or 866-557-1746 | Sci. | Eng. | Admin. |
| Wastewater Collections | NA | 1 | NA |
| Wastewater Treatment | 1 | NA | NA |
| Chlorine & Disinfection | 3 | NA | NA |
| Wastewater Treatment & Water Quality | 4 | NA | NA |
| Laboratory Safety | NA | NA | 1 |
| Capacity Management, Operations & Maintenance | NA | NA | 1.6 |
| Pumping Principles | NA | 1.6 | NA |
| Wet Lab Procedures | 2.4 | NA | NA |
| Nutrients & Microbes | 2.4 | NA | NA |
| Modern Disinfection | 2 | NA | NA |



| | | | |
|----------------------------|-----|-----|-----|
| Utility Counter Terrorism | NA | NA | 3 |
| Tertiary Treatment | NA | 2.4 | NA |
| Collection System Operator | NA | NA | 1.6 |
| Pumps & Motors | NA | 2 | NA |
| Basic Electricity | NA | 1.2 | NA |
| Fluid Mechanics | NA | 2.4 | NA |
| Chlorination 101 | 1 | NA | NA |
| Chlorination 303 | 2.4 | NA | NA |
| Pre-Treatment 202 | 2.4 | NA | NA |
| Wastewater Treatment 202 | 1.4 | NA | NA |
| SCADA 202 | NA | 1.2 | NA |

| | | | |
|--|-------------|-------------|---------------|
| Michigan Rural Water Association Contact: membersvcs@mrwa.net or 517-657-2601 | Sci. | Eng. | Admin. |
| Wastewater Operations | NA | 1.2 | NA |
| Microsoft Excel and Office (2 courses required) | NA | NA | 1.1 |
| Advanced Wastewater Operations | NA | 1.2 | NA |

| | | | |
|--|-------------|-------------|---------------|
| Marquette University Contact: c2e2@marquette.edu or 414-288-7030 | Sci. | Eng. | Admin. |
| Emerging Contaminants in Water & Wastewater | NA | 1 | NA |

| | | | |
|--|-------------|-------------|---------------|
| Water Environment Federation Contact: csc@wef.org or 1-800-666-0206 | Sci. | Eng. | Admin. |
| Operations Training/Activated Sludge | NA | 1 | NA |
| Operations Training/Pumps | NA | 1 | NA |
| Operations Training/Solids Handling | NA | 1.5 | NA |

| | | | |
|---|-------------|-------------|---------------|
| American Water Works Association <i>Not currently offered but count towards total SHEs if you previously took these courses</i> | Sci. | Eng. | Admin. |
| Applied Hydraulics | NA | 3 | NA |
| Basic Electricity Short Course | NA | 2 | NA |

| EGLE Operator Training and Certification Unit <i>Not currently offered but count towards total SHEs if you previously took these courses</i> | Sci. | Eng. | Admin. |
|--|-------------|-------------|---------------|
| Activated Sludge | NA | 1.6 | NA |
| Anaerobic Sludge Digestion Process Control | NA | 1 | NA |
| Attached Growth Process Control | NA | 1.6 | NA |
| Industrial Wastewater Treatment I | NA | 1.6 | NA |
| Industrial Wastewater Treatment II | NA | 1 | NA |
| Laboratory Procedures I, II, and III (can take separately) | 2 | NA | NA |
| Oxidation Ditch | NA | 1.6 | NA |
| Phosphorus Removal Techniques (either category) | 1.6 | 1.6 | NA |
| Sequencing Batch Reactor | NA | 1.6 | NA |
| Wastewater Stabilization Lagoon | NA | 1.6 | NA |
| Wastewater Clarification | NA | 1 | NA |
| Chemical Clarification | NA | 1 | NA |
| Inorganic Wastestreams Treatment | NA | 0.4 | NA |

| D Hill Environmental <i>Not currently offered but count towards total SHEs if you previously took these courses</i> | Sci. | Eng. | Admin. |
|---|-------------|-------------|---------------|
| Activated Sludge Process | NA | 1.6 | NA |
| Bacterial Monitoring & Disinfection | 1 | NA | NA |
| Industrial Wastewater I | NA | 1 | NA |
| Industrial Wastewater II | NA | 1 | NA |
| Oxidation Ditch Process Control | NA | 1.6 | NA |
| Phosphorus Removal | NA | 1 | NA |
| SBR Process Control | NA | 1.6 | NA |
| Trickling Filter/RBC Process Control | NA | 1.6 | NA |
| Water Biology and Microscope Workshop | 1 | NA | NA |
| Wastewater Stabilization Lagoon | NA | 1 | NA |
| Laboratory Basics | 1.6 | NA | NA |

For information or assistance on this publication, please contact the Water Resources Division through EGLE Environmental Assistance Center at 800-662-9278. This publication is available in alternative formats upon request.

EGLE does not discriminate on the basis of race, sex, religion, age, national origin, color, marital status, disability, political beliefs, height, weight, genetic information, or sexual orientation in the administration of any of its programs or activities, and prohibits intimidation and retaliation, as required by applicable laws and regulations.