

## Northeast Wisconsin Technical College (NWTC) Marine and Energy Programs

**Marine Construction.** Marine Construction technical training prepares students in broad-based programming with specific skills in marine metals, electrical, mechanical, project management, and component and materials testing skills. The program provides a skilled workforce in trades who are able to build, install, operate and maintain integral marine systems. A graduate of the program will have the potential for employment in the Shipbuilding and Repair Industry in one of the following marine construction fields.



- **Marine Welder:** employment in Structural Welding, Welder/Fabricator, and Pipe Welder are possible. In these positions the graduate will build and repair components of vessels using basic knowledge of blueprints, metallurgy, and layout while applying the major welding processes used by the industry. With additional education and/or work experience, graduates may find other opportunities for employment, such as Journey Level Welder, Welding Inspector, Welding Supervisor, Journey Level Welder/Fabricator, Pipe Fitter, and Outfitter.
- **Marine Electrician:** employment in installing and servicing conduit, wire, cable, and equipment in new and existing commercial, industrial structures and marine vessels. Additionally, you may find employment in installing, maintaining, and troubleshooting motors, motor controls, lighting, and other electrical systems in an industrial plant or marine vessel. With additional education and/or work experience, graduates may find other opportunities for employment, such as Electrical Engineering Technician, Electrical Supervisor, Journey Level Electrician, and Electrical Maintenance Supervisor.

**Marine Engineering Technology.** The Marine Engineering Technology Associate Degree prepares students with programming specific to marine skills. Marine Engineering Technicians assist the management team by designing marine systems and components. The program provides a skilled workforce of engineering technicians able to design integral marine systems. A graduate of this program will have the potential for employment in the marine manufacturing sector of building boats, to yachts, to ships as a Marine Engineering Technician, a Mechanical Design Technician, a Mechanical Drafter, or an Electro-Mechanical Designer.

**Great Lakes Energy Education Center.** NWTC's Great Lakes Energy Education Center (GLEE) was created to help students power up a career in energy. Associate degrees, technical diplomas, certificates, apprenticeships and workforce training can start or advance a student's career in a growing industry. Careers in energy and utilities are known for:

- **High pay** – Six months after graduation, NWTC's 2012-13 grads in these programs earned a median annual wage of between \$37,900 and \$46,146
- **Excellent job growth** – Skilled technicians are needed in all fields, especially in the utility industry, where 53 percent of the workforce are preparing for retirement.
- **Long-term job stability** – As demand for energy and alternative energy sources continues to increase, the need for qualified technicians will remain strong.
- **New technology** – Alternative energy sources, like solar and wind, are taught alongside advanced technologies that bring power to customers.