Marine Technical Specialist

Program information: 631/667-6000, x320 www.wilsontech.org/marine

Endorsed by:









National Marine Electronics Association





Wilson Technological Center is the career and technical education division of Western Suffolk BOCES.

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A **Career** for Boating Enthusiasts



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Recreational Boating Creates Jobs Marine Technical Specialist

The recreational boating industry, both on Long Island and nationally, requires qualified marine technicians who can service boat engines and operate marinas. Rapid advances in marine propulsion technology demand a high level of competency and training. Those earning a certificate from Wilson Tech will be well-prepared for employment opportunities in boat yards, marinas, engine repair facilities, as well as on fleets of boats used for consumer fishing, police and government agencies.

Modules I to VI taken in order will provide both basic theory and hands-on training. The second six modules will help you be versatile in all aspects of boat service operations. After successfully completing all 12 modules, the student must complete an internship in a local boat yard or marina to earn the Tech certificate. Students who successfully complete coursework can take industry standard certification tests to become certified in Yamaha and/or Mercury products.

Those looking to strengthen their knowledge on a specific topic can take

COURSE OF STUDY

Outboard Technology I (Module 1)

This first module covers the breakdown of the two and four stroke internal combustion engine operating theory with modern computer engine controls. Cooling systems are also covered. Course #2901

Basic Marine Electrical Systems & Wiring (Module 2)

Learn DC theory and wiring, battery systems. Use of American Boat & Yacht Council and National Marine Electronics Association standards. Course #2907

Fuel Systems (Module 3)

Advance to carburetor theory, fuel and fuel delivery, fuel pumps, lubrication, boat fuel systems, standards and recommended practices. Course #2902

Ignition Systems (Module 4)

Gain in-depth information on how ignition systems work. Learn CDI and electronic ignition theory and troubleshooting using modern test equipment. Course #2903

Electronic Fuel Injection (Module 5)

Gain a thorough understanding of computerized electronic and direct injection engine operating systems. Heavy emphasis on hands-on computer diagnostic operations. Course #2906

Drive Systems (Module 6)

Study all drive systems in the industry today. Class includes outboard lower units, stern drive, and inboard transmissions diagnosis and rebuilding including shimming procedures. Course #2905

Outboard Technology II (Module 7)

Expand on the knowledge gained in Outboard Technology 1, including advanced systems troubleshooting for both 2 and 4 stroke engines. Course #2904

Electronics Installations (Module 8)

Proper installation of electronics is essential to navigation and safety. Learn to install navigation and communication systems. Course #2908

Rigging and Performance (Module 9)

Learn proper installation of outboards and stern drives to optimize engine performance. Students will de-rig and repower a typical boat and perform on water testing of the completed boat. Course #2909

Marina Management (Module 10)

This class is a MUST for anyone entering or currently working in the marine industry. Learn excellent customer service skills, how to be a service writer and gain an overview of the marina as a business. Students will earn their apprentice boat bottom painting and fork truck drivers certificates. Course #2910



MARINE TRADES



individual modules with the approval of the instructor who will evaluate relevant experience or background.

Instructors are experts from the recreational marine industry on Long Island. A basic set of hand tools, multi-meter and basic diagnostic tools, costing approximately \$2,000, are students' responsibility. A supply list will be provided per module and is available at www.wilsontech/marine. Textbooks additional.

Marine Technical Specialist – Modules vary by semester. Program totals 584 hours (504 hours in class, 80 hours in internship).

Dates: Classes meet Tuesday and Thursday evenings.

Location: Tech's Manor Plains campus, 200 Little Plains Road, Huntington. Tuition: \$319/module.* Each module is 42 hours.

Diesel Theory (Module 11)

Learn basic theory and maintenance of the diesel engine. Course #2911

Systems Troubleshooting (Module 12)

This module offers an in-depth approach to diagnostics utilizing the latest tools and methods. Special attention will be given to electrical failure diagnostics and a systematic approach to trouble shooting. Course #2912

Boat Yard Operations–Internship

In this final segment of your training, you will spend 80 hours at a local boat yard or marina so you can practice hauling and launching, blocking, bottom painting, fork and travel lift training. Course #2915 Days and times vary (80 hrs, 8 CEU)

ELECTIVES

Although these classes are not required, they are highly recommended to enhance your employability. The cost of electives is not included in the full tuition.

Fiberglass Technology

Learn how to perform basic fiberglass hull and cosmetic repairs.

Heliarc (Tig)

Learn theory and practical applications of heliarc welding and positions and properties of various metals. Students must provide gloves, goggles, helmet.

1.org/marine *Tuition listed is for modules taken in 2009–10 academic year. Tuition is subject to change.

More info, course dates & times: 631/667-6000, x320 • www.wilsontech.org/marine