



## MARINE TECHNICIAN 350-HOUR CERTIFICATE PROGRAM

Work in an environment you love! Our marine program allows you to work during the day while you train for your new career at night. We have run full programs of twenty students each for the last five years. The 350-Hour Certificate Program involves the three required courses listed below, and runs two evenings a week, plus every second or third Saturday. The next program will start in September 2008 and end in May 2009. To gain more information or discuss enrollment criteria, call Elaine Stewart, Dean of Workforce Development and Community Education at 508-588-9100 x1560 or [estewart@massasoit.mass.edu](mailto:estewart@massasoit.mass.edu). Web Registration is not available for this program, as it involves an approval process.

<b>CSTT205</b>	<b>Marine Technician Fundamentals</b>	<b>(140 hours)</b>	<b>\$777</b>
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This course is the first of three modules required to earn the Marine Technician 350-hour Certificate, a program approved by and offered in partnership with the Massachusetts Marine Trades Association (MMTA). This course provides a brief overview of the marine industry and working environment for technicians, marine tools and equipment, and safety training. Introduced are the basic principles of internal combustion engines, engine systems, and basic electricity, plus the theory of power generation. In addition, fuel, water, steering, electrical, lubrication, ventilation, ignition and instrumentation systems are presented, as well as basic trouble-shooting for each system. Also covered are Spring preparation and repair, Fall lay-up, trailering, yard equipment, and basic boat moving and handling. Instruction includes both lecture and hands-on training. The second and third modules: Marine Technician Outboard Engines and Marine Technician Inboard Engines are offered the following semester.

<b>CSTT206</b>	<b>Marine Technician Outboard Engines</b>	<b>(96 hours)</b>	<b>\$647</b>
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This course is the second of three modules required to earn the Marine Technician 350-hour Certificate, a program approved by and offered in partnership with the Massachusetts Marine Trades Association (MMTA). Participants learn the various parts and processes involved in installation, repair, and maintenance of outboard engines. Included are instructions on the fuel, electrical, lubrication, and cooling systems of two and four stroke outboards, both carbureted and injected engines. Also covered are lower units and propulsion, power tilt/ trim, tune-up, trouble-shooting, winterization and preventive maintenance of outboards. Instruction includes both lecture and hands-on training. Marine Technician Fundamentals is a pre-requisite for this course, and the third required course, Marine Technician Inboard Engines, will be offered next.

<b>CSTT207</b>	<b>Marine Technician Inboard Engines</b>	<b>(114 hours)</b>	<b>\$657</b>
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This course is the third of three modules required to earn the Marine Technician 350-hour Certificate, a program approved by and offered in partnership with the Massachusetts Marine Trades Association (MMTA). Participants learn theory, design, operation, controls, installation, maintenance, and troubleshooting skills for marine inboard, inboard/outboard, stern drive, and diesel engines. The design differences among the engines, as well as their various cooling, lubrication, exhaust, gearing, propulsion, transmission, and hydraulic systems are presented. Instruction includes both lecture and hands-on training. Marine Technician Fundamentals and Marine Technician Outboard Engines are pre-requisites for this course.

This program is made available through a Jobs In Boating Grant awarded to Massasoit Community College in partnership with the Massachusetts Marine Trades Association (MMTA), Bristol Community College and MY TURN, Inc., and the Massachusetts Executive Office for Labor and Workforce Development.