

# Marine Service Technology

I490306/8751000 -1350 hours  
Industrial Education Cluster



The purpose of this program is to prepare students for employment as machinery mechanics for marine engines or outboard motors. Program content includes service, repair and overhaul for four-stroke and two-stroke cycle engines and outboard motors; service and repair of boating accessories; electrical, fuel, power transfer, ignition, cooling, lubrication and drive systems; and maintenance of boat and trailer rigging. The student may exit the program at one of the six levels of proficiency. Total length of the program is 1350 hours.

## OCP: A – Marine Rigger – 300 Hours

- Perform shop practices to industry standards
- Maintain and repair basic four-stroke cycle engines
- Maintain and repair basic two-stroke cycle engines
- Maintain and repair electrical systems
- Maintain and repair fuel systems
- Maintain and repair two-stroke cycle carburetors
- Use marine woods, metals, and fiberglass
- Adjust and repair trailers
- Prepare and deliver sales merchandise
- Parts specialist and computer skills to industry standards
- Maintain and repair cooling systems
- Maintain and repair lubrication systems
- Demonstrate mathematics knowledge and skills
- Demonstrate science knowledge and skills
- Use oral and written communication skills in creating, expressing and interpreting information and ideas

## OCP: B – Outboard Engine Technician (1 of 2) – 300 Hours

- Perform gasket/seal operations and electronic test equipment skills to industry standards
- Maintain and repair basic two-stroke cycle outboard engines
- Maintain and repair outboard fuel systems
- Maintain and repair outboard cooling systems
- Maintain and repair outboard lubrication systems
- Maintain and repair outboard lower gear cases
- Demonstrate language arts knowledge and skills
- Solve problems using critical thinking skills, creativity and innovation
- Demonstrate the importance of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance

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**OCP: C – Outboard Engine Technician (2 of 2) – 300 Hours**

- Maintain and repair outboard cranking systems
- Maintain and repair outboard magneto ignition systems
- Maintain and repair outboard battery ignition systems
- Maintain and repair outboard capacitor discharge ignition systems
- Maintain and repair outboard charging systems
- Perform outboard upper to lower gear case maintenance
- Assemble and maintain outboard lower units and housing assemblies
- Use information technology tools
- Describe the importance of professional ethics and legal responsibilities
- Demonstrate personal money-management concepts, procedures, and strategies

**OCP: D – Stern Drive Technician – 150 Hours**

- Maintain and repair basic four-stroke cycle stern drive engines
- Maintain and repair stern drive fuel systems
- Maintain and repair stern drive cooling systems
- Maintain and repair stern drive lubrication systems
- Maintain and repair stern drive upper gear case
- Maintain and repair stern drive lower gear cases
- Maintain and repair stern drive battery ignition systems
- Maintain and repair stern drive capacitor discharge ignition systems
- Maintain and repair stern drive intermediate housings
- Describe the roles within teams, work units, departments, organizations, inter-organizational systems, and the larger environment
- Demonstrate leadership and teamwork skills needed to accomplish team goals and objectives
- Explain the importance of employability and entrepreneurship skills

**OCP: E – Inboard Gas Technician – 150 Hours**

- Perform parts manual activities to industry standards
- Maintain and repair basic four-stroke cycle inboard gas engines
- Maintain and repair inboard fuel systems
- Maintain and repair inboard gas cooling systems
- Maintain and repair inboard gas lubrication systems
- Maintain and repair inboard gas fuel systems
- Maintain and repair transmissions

**OCP: F – Inboard Diesel Technician – 150 Hours**

- Maintain and repair inboard diesel fuel systems
- Maintain and repair inboard diesel cooling systems
- Maintain and repair inboard diesel lubrication systems
- Maintain and repair inboard diesel charging systems

