

# Vocational Certificate Marine Engineering (Marine Propulsion)

This program is designed for those students who want training in marine gasoline and diesel engines without immediately pursuing the Associate in Science degree. The certificate is issued by the Marine Engineering Department and attests to the completion of the courses outlined below. These courses may also apply to the A.S. degree in Marine Engineering if a student later decides on that option. Program duration is approximately one (1) calendar year.

## **Program Core (15 credits required)**

MTE 1183C Marine Engine Installation and Repowering Procedures (3)  
MTE 1400C Applied Marine Electricity (3)  
MTE 1651C Gas & Electric Welding (3)  
MTE 2062 Marine Corrosion and Corrosion Prevention (2)  
MTE 2234C Marine Gearcase, Outdrives and Transmission System (4)

## **Elective Cluster (19 credits required)**

### **Gasoline Engines**

MTE 1053C 2 & 4-Cycle Outboard Engine Repair & Maintenance (3)  
MTE 1166C Marine Ignition and Fuel Systems (3)  
MTE 2072C Marine Propulsion Gasoline Engine Troubleshooting (3)  
MTE 2054C Marine 4-Cycle Stern Drive Inboard Engines (3)

### **Diesel Engines**

MTE 1001C Marine Diesel Engine Overhaul (3)  
MTE 1056C Marine Diesel Systems (3)  
MTE 2058C Diesel Engine Testing Troubleshooting Procedures (3)  
MTE 2160C Diesel Fuel Injection Systems (3)

**Total Credits Required: 34**

## **Optional Factory Certifications (Offsite\*):**

Bombardier/Evinrude Marine:

- Professional Technician
- Outboard Certification

## **Other Optional Certifications:**

- USCG Captains License
- FKCC Welding Certification

\*Depending on Availability