Overview

The Advanced Marine Repair Technician certificate is designed to provide graduates of the Marine Repair Technician program with the opportunity to develop advanced-level skills in the areas of marine engine rebuilding and marine engine/power systems. Diagnostics and the repair of outboard motors, inboard engines, marine transmissions, along with sterndrive units will be examples of coursework designed within this advanced certificate. Students are encouraged to adhere to projects which will increase their level of expertise as a qualified Marine Repair Technician. This certificate is designed to adapt to specific student interests in combination with the advanced technological changes taking place within the Marine Industry.

Special Features

This certificate is unique in the state. Students completing this certificate must meet prerequisite requirements. This certificate has the ability to be adapted to each student’s unique interests in the marine repair field.

Outcomes

Employers will expect the graduate of this certificate to:

- Adhere to project completion deadlines
- Follow proper repair instructions
- Complete projects that meet professional standards
- Complete project work as intended
- Be able to have an in-depth knowledge related to select product-specific training

Career Outlook

Upon completing this certificate, graduates will be ready to begin or complete their career as a marine repair technician and be able to complete advanced repairs such as (depending on selected learning activities):

- Diagnose and repair outboard motors
- Diagnose and repair sterndrive and inboard engines
- Repair marine transmissions and sterndrive units

Related Program

- Marine Repair Technician

Curriculum

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<td>Advanced Marine Engine Systems</td>
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CERTIFICATE REQUIREMENTS 6

▲ Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better.

Course Descriptions

31461344

**Advanced Marine Engine Rebuilding - Credits: 3**

This course is designed to study in detail the process of rebuilding a marine engine or its related major components. The student will choose and provide a major project(s) and rebuild it to the manufacturer’s specifications. The student will have to provide the instructor with a list of project(s) and the time estimated for their completion. The instructor will need to approve the project(s) and will guide the student as to the feasibility of completion. The estimated hours of completion will equal 3 credit hours (96 hours of time). The instructor will offer guidance to assure the students success in completion of the project. Lab work will need to be completed during the open time of the marine lab. PREREQUISITE: Successful completion of the Marine Repair Technician program.

31461345

**Advanced Marine Engine Systems - Credits: 3**

This course is designed to increase the student’s knowledge of specific manufacturers’ operation systems. The student will be able to complete additional manufacturer training programs. There may be an additional cost to the student for some of these programs. Also the student will select areas of interest to study in detail, and provide training to program students and the public. Student to submit an outline of work to be completed that equals the number of credit hours of the course. Lab work will need to be completed during the open time of the marine lab. PREREQUISITE: Successful completion of the Marine Repair Technician program.