**MARINE POWER & EXTREME SPORTS TECHNOLOGY**



Lake Career & Technical Center

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**Marine Power & Extreme Sports Technology**

Whether by land or water the Marine Power & Extreme Sports Technology program offers what the student wants. The program will emphasize various marine systems including inboard, outboard, stern drive, Personal Watercraft (PWC), all terrain vehicle (ATV), and motorcycle repair procedures. This course will cover basic two-stroke and four-stroke engine repair, propulsion repair, drive train repair, suspension repair, and braking repair for each type of equipment.

Instruction will focus on classroom theory, related technical communication and math, along with projects including "live-work" as hands-on projects. Students will also receive instruction in the employment process, including the proper completion of applications and the preparation of personal resumes.

Leadership and competition opportunities will be made available through various community service projects and job related contests as provided through the LCTC SkillsUSA Chapter. This class also includes the opportunity to pursue embedded math credit.

**LCTC Building & Graduate Goals**

**Mission:**

**The Camdenton R-III School District and Lake Career & Technical Center commits to creating a learning community that maximizes each individual performance for future success.**

**Vision:**

**Everyone learning every day.**

**Graduate Goals:**

* **Complete pre-employment curriculum required to actively engage in seeking and obtaining employment opportunities.**
* **Exhibit mastery of technical literacy skills in communications, math, and technology through completion of various individual and group projects.**
* **Demonstrate mastery of industry technical skills through completion of individual and group class projects and experiential learning activities related to Marine Service Technology.**
* **Be knowledgeable of options available for continuing education and/or career pathways through completion of career planning.**
* **Possess clear understanding of interpersonal skills required to retain employment.**

**Marine Service Technology Course Rationale:**

**This course is designed to provide the entry level skills needed for the student to enter the work force in the marine service industry. With an estimated 82 million adult Americans participated in recreational boating, along with 12.7 million boats registered in the United States in 2009 (*a snapshot or recreational boating in America, Dr. Glenn E. Haas, Colorado State University)* the number of marine technicians in the United States is expected to greatly increase in the coming years. Missouri ranks number fourteen in boats registered by states in the U.S.A.**

**With support from various marine dealers and manufacturers such as Volvo Penta, and student leadership programs such as Skills USA, the Lake Career & Technical Center can help you begin your career as a Marine Technician.**

**Student Expectations:**

**Each member of the class will follow the LCTC handbook rules. The handbook is the basis for all classes at the school. However, each program is different in the way that it operates; therefore, these are additional expectations.**

* **Please respect all individuals in the program.**
* **Follow directions the first time they are given.**
* **Students should take notes during lecture and actively participate in class discussions.**
* **Please raise your hand to be recognized in class before speaking during instructional and test time.**
* **As a responsible student, you are expected to finish any project that you begin.**
* **Safety glasses must be worn in the lab area at all times.**
* **Only soft soled tennis shoes or work shoes can be allowed in the lab area.**
* **Please do not toss or throw objects to other students.**
* **Please return all tools and equipment to proper storage area when not in use.**
* **Ask permission before leaving the classroom or lab area. (hall pass required).**
* **Please be courteous when working around other student’s tools or projects.**

**Power Standards**

**MP Marine Power & Extreme Sports Technology – High School**

1. Safety

MP1a Shop Safety

MP1b Tool/Equipment Safety

2. Engines

MP2a Two Cycle Engines

MP2b Four Cycle Engines

1. Electrical

MP3a Starting Systems

MP3b Charging Systems

MP3c Ignition Systems

MP3d Accessory Systems

1. Fuel Systems

MP4a Carburetors

MP4b Fuel Injection Systems

1. Specialized Procedures

MP5a Service Literature

MP5b Parts Lookup

1. Cooling Systems

MP6a Winterizing Procedures

MP6b Open Cooling Systems

MP6c Closed Cooling Systems

1. Propulsion Systems

MP7a Propeller Systems

MP7b Jet Systems

8. Pre-Employment

PE1a Application

PE1b Resume

9. AST - Power Standards Coding – **Work Ethics – Student Behaviors**

**WE1a** Pre-Test All Student Behaviors

**WE1a1** Post-Test Attitude

**WE1a2** Post-Test Attendance

**WE1a3** Post-Test Appearance

**WE1a4** Post-Test Ambition

**WE1a5** Post-Test Accountability

**WE1a6** Post-Test Acceptance

**WE1a7** Post-Test Appreciation

WE1b Student Organization Participation

1. Technical Math

TM1a Fractions

TM1b Measurements

TM1c Integers

TM1d Ratios