

MARINE SERVICE TECHNOLOGIES

MASTER PLAN OF INSTRUCTION

2023 - 2024

Mr. Esterline, Instructor



MISSION

The mission of Fort Myers Technical College is to provide high quality career and technical training, in order to prepare students for current and emerging industries, delivered by a professional and caring staff in a positive learning environment.

The School Board of Lee County, Florida does not discriminate nor tolerate discrimination on the basis of race (including anti-Semitism), color, ethnicity, national origin, sex, sexual orientation, gender identification, gender expression, disability (physical or mental), pregnancy, marital status, age (except as authorized by law), religion, military status, socioeconomic status, linguistic preference, genetic information, ancestry, or any other reason protected under applicable federal, state, or local law in the provision of educational programs, activities or employment policies as required by Title II, Title VI, and Title VII Civil Rights Act of 1964 including, Title IX of the United States Education Amendments of 1972, Age Discrimination in Employment Act of 1967 (ADEA), Individuals with Disabilities Education Act (IDEA), Section 504 of the Rehabilitation Act of 1973, Florida Civil Rights Act of 1992, Genetic Information Nondiscrimination Act of 2008, Americans with Disabilities Act of 1990 (ADA) and the Amendment Act of 2008 (ADAAA), and the Florida Educational Equity Act of 1984. The School Board also provides equal access of its facilities to youth groups, as required by the Boy Scouts of America Equal Access Act. Any sections of the District's collectively bargained, negotiated agreements dealing with hiring, promotion, and tenure will contain a statement of nondiscrimination similar to that in the Board's statement above. As required by Florida's Educational Equity Act, the Superintendent shall submit an annual equity report addressing the District's educational and employment practices. The School Board of Lee County, Florida, prohibits retaliation by any District personnel against a person for reporting, filing or being a witness in a discrimination (including harassment) charge, complaint, investigation or lawsuit associated or in connection with this policy. Established grievance procedures and appropriate discrimination complaint forms are available from the Office of Civil Rights & Equity, Academic and Student Support Services or the Equity Coordinator at each school. Complaints/inquiries regarding compliance with these regulations may be submitted in writing to: For Employees: Office of Civil Rights & Equity Compliance at (239) 337-8134 or at CivilRightsEquity@leeschools.net. For Students: Office of Positive Prevention at (239) 939-6858.

Lack of English language skills will not be a barrier to admission and participation. The District may assess each student's ability to benefit from specific programs through placement tests and counseling, and, if necessary, will provide services or referrals to better prepare students for successful participation.



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The Marine Service Technologies program provides the student with the opportunity to learn the skills and techniques of marine service along with laboratory practices, information, related technology, and correct terminology necessary to become gainfully employed in the marine service field. The Marine Service Technologies program is 1350 hours and trains individuals to attain an entry-level position in the marine service industry. The program covers a broad range of instruction that will give an entry-level marine service technician a good foundation for a long career in the marine service industry.

PROGRAM MISSION

The mission of the Marine Service Technologies program is to prepare students for employment in the marine service technology field; to focus on student and industry needs; to maintain constantly updated technologies by the instructor and program advisory committee to keep current with technological changes; and to deliver this training in a professional and positive learning environment.

PROGRAM PHILOSOPHY

The Marine Service Technologies program is based on the following beliefs:

- Education is a continuing process lifelong process.
- Continuing education for occupational competence must be included in the educational process for today's workforce.
- We must strive to provide the most up to date and continuous program and curriculum revisions, based on input from industry leaders, employers, advisory committee members, concerned citizens, students, and school personnel.
- We must incorporate innovative teaching methods that prepare students to meet industry standards.
- We must use careful assessment of abilities and interests so that all students may formulate realistic occupational goals.
- Students' success can almost be guaranteed when they accept responsibility for their own learning; when instruction is relevant, challenging, and interesting; and when students can see regular evidence of their progress.
- It is realistic to assume that occupational education is a choice based on individual interests and gives meaning through application to the basics in the educational experience. This will enhance student retention through interest in meaningful learning. All persons have individual worth and a right to reach their fullest potential.

PROGRAM CONTENT

Marine Service Technologies simulates the world of work by presenting a program which enables individuals to develop occupational skills, positive attitudes, and effective work habits which will contribute to successful employment. The content of the program includes but is not limited to:

- The theory and operation of the 2-stroke and the 4-stroke engines
- Electrical ignition systems as well as the safe and efficient work practices in the exploration of all functions of the marine power plants.
- Students will have an opportunity for multiple "hands-on" laboratory experiences including troubleshooting and repair of power heads, fuel systems, ignition and electrical systems and accessories.
- This program is a planned sequence of instruction consisting of six occupational completion points (OCP). OCPs provide a student with early completion training options linked to employment opportunities established by the Florida Department of Education based on the Standard Occupational Classification (SOC) system and accepted industry titles.

ESSENTIAL TRAINING TASKS

Physical requirements

Must have the ability to:

- Demonstrate high degree of manual and physical dexterity
- Lift at least 50 pounds and move
- Reach above shoulder level
- Grip, stoop, kneel, crouch, bend, crawl, and climb
- Use voice, hearing, and sight effectively to perform jobs in the marine field
- Stand for long periods of time
- Work with chemicals
- Tolerate exposure to dust and/or odors

- Handle supplies
- Use depth perception
- Work in an atmosphere of loud noise
- Work in an atmosphere of changes in temperature
- Perform repetitive tasks

Cognitive requirements

Must have the ability to:

- Interpret a variety of instructions furnished in written, oral, and diagrammatic form
- Perform mathematical computations
- Read and understand computer and related equipment
- Measure accurately
- Differentiate colors
- Work in close or crowded areas
- Collaborate and communicate well with others
- Concentrate
- Demonstrate a high degree of patience
- Cope with high levels of stress
- Handle confrontation and frustration and assist in problem resolution
- Make fast decisions under pressure
- Demonstrate high degree of mental and emotional flexibility
- Perform, prioritize, and complete multiple tasks of relative complexity simultaneously
- Work accurately and effectively without close, direct supervision

ACCOMMODATIONS

Federal and state legislation requires the provision of accommodations for students with disabilities as identified on the secondary student's IEP or 504 plan or post-secondary student's accommodations plan to meet individual needs to ensure equal access. Post-secondary students with disabilities must self-identify, present documentation, required accommodations if needed, and develop a plan with their post-secondary service provider. Accommodations received in post-secondary education may differ from those received in secondary education. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology, and special communication systems. Documentation of the accommodations requested and services provided are maintained in a confidential file.

TUITION

Tuition is charged for adult students at a reasonable rate that may vary slightly from year to year and is due prior to the first day of each payment period. Current fee information is available from Student Services. Tuition is waived for eligible high school dual-enrolled students. Failure to pay all fees due at the time class begins will result in the student not being able to attend class and/or clinical.

CLASS SCHEDULE

Classes meet Monday through Friday from 8:00 A.M. until 2:30 P.M. This amounts to 30 hours of classroom instruction per week. Lunch breaks are 30 minutes in length.

ATTENDANCE POLICY

In an effort to develop appropriate employability skills, FMTC students are expected to attend all class sessions. As is expected in the workplace, when it is necessary to be absent due to illness or emergency situations, all students are to notify the instructor on or before the date of the absence. The student attendance policy for each post-secondary program is consistent with industry standards.

Campus attendance is kept via a computerized system. It is the responsibility of the student to **log in and out** in order to receive credit for class time. This allows the school to keep accurate attendance records for the actual number of hours and minutes attended.

All adult students are expected to be in attendance at least 90% of their scheduled hours during each payment period. Adult students failing to maintain the 90% attendance standard may not be permitted to continue in their program and may be withdrawn.

Absences

A student who is absent for 6 consecutive class sessions, without prior approval and without contacting the instructor, will be withdrawn from enrollment in his/her program.

Students who are late for class, including returning late from lunch, must clock in. Students who leave school early must notify their instructor and clock out. This time out of class is recorded as time absent and is counted against the required 90% attendance.

Adult students who know they will be out of school for an extended period of time may apply for a Leave of Absence from their program. Students who exercise a leave of absence may have to extend their time in their program and pay additional fees.

Leaving Campus During School Hours

Students must notify their instructor when leaving campus early. This is for the safety of students, to accurately track time, and to allow the instructor to best utilize instructional resources.

PLAN OF INSTRUCTIONAL PRACTICES

Teaching Methods

Marine Service Technologies simulates the world of work by presenting a program which enables individuals to develop occupational skills, positive attitudes, and effective work habits which will contribute to successful employment. Students are challenged in the safe use of tools and technologies related directly to the field of marine service and the Florida Department of Education Curriculum Framework competencies for Marine Service Technologies.

Safety

Safety is paramount. Students are taught the safe and proper use of power tools, hand tools, small fork lift operation, and fire extinguisher operation, as well as the safe operation of marine equipment on and off the water.

Evaluation

Class performance, quizzes, tests, attendance, portfolio assessments, completion of project assignments, decision-making, work habits, achievement of entry-level competencies, and other methods are used for evaluation.

Work-Based Activities

Work-based learning activities play an integral part of the curriculum of FMTC's career-technical training programs. These activities are planned with two objectives in mind. First, the activity provides students with the opportunity to develop and apply 'real world' experience using the knowledge and skills attained in the program. Second, the activity provides the instructor with objective input from potential employers or customers of program graduates. Each work-based activity has a written instructional plan outlining objectives, experiences, competencies, and evaluation required during the activity.

Work-based activities are program specific and may include:

- Unpaid in-school shop activities to provide customer service opportunities under the direct supervision of the program instructor.
- Unpaid job shadowing experiences that may include in-school or off-campus employer-based experiences under the supervision of a qualified employer representative who is working closely with the program instructor.
- Paid or unpaid cooperative training experiences conducted at the employer's work location under the supervision of a qualified employer representative and under the direction of the program instructor.

Cooperative Education

Cooperative training is available for students and coordinated by the instructor and career specialist. Cooperative training is for students who have shown competence in program training that indicates readiness for placement in an on-the-job

program. High school students participating in the cooperative job placement program must be in the 12th grade. To be eligible for a cooperative education experience, students must have completed at least one-half of the required program hours and requirements.

Student may be returned to the program for additional training if they do not function satisfactorily on the job or when the cooperative agreement is terminated at the request of the student, parent, employer, or program instructor. Veterans will be accepted into the program in accordance with the Department of Veterans Affairs approved program.

Additional information regarding cooperative training opportunities may be obtained from the program instructor or career specialist.

GRADING POLICIES

Grading Categories:

Assessments	40%
Career Application (shop)	30%
Employability Skills	30%

Grading Scale:

A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

Each program has an employability skills rubric based on employee expectations in the industry.

Program Progress

Students are required to complete the program of training within the hours allotted by the state of Florida for completion. Progress must be at a rate that will allow completion of the program with the number of hours stated in the Curriculum Frameworks.

Work Habits

Effective work habits are the cornerstone to successful employment. Students are expected to demonstrate productive work habits during all phases of enrollment. Instructors will work with students who need assistance in this area to improve all overall possibility for successful employment.

Attendance: Attends class, arrives/leaves on time; begins and ends work as expected.

Character: Displays loyalty, honesty, trustworthiness, dependability, reliability, initiative, self-discipline, and self-responsibility; displays a high level of effort and commitment to performing and completing work.

Teamwork: Respects the right of others; respects confidentiality; is cooperative; is assertive; displays a customer service attitude; seeks opportunities for continuous learning; demonstrates mannerly behavior; encourages and facilitates cooperation, pride, trust, and group identity; fosters commitment and team spirit.

Appearance: Displays appropriate dress, grooming, hygiene, and etiquette; wears full regulation uniform.

Attitude: Displays a willingness to cooperate and accept constructive criticism; sets realistic expectations; approaches assignments with interest.

Productivity: Is prepared for class by reading assignments and completing homework; contributes to class discussions; and involvement in lab activities (in other words, no sleeping or daydreaming). Follows safety practices; conserves and maintains equipment and supplies; keeps work area neat and clean; follows directions and procedures; makes up assignments and tests punctually; notifies proper authorities of situations presenting potential safety hazards; does not use or knowingly permit others to use tools and equipment improperly; stays on task and utilizes time constructively.

Organization: Manifests skill in prioritizing and managing time and stress; demonstrates flexibility in adapting to changes.

Communication: Communicates accurate information to others in a professional and courteous manner; displays appropriate nonverbal (eye contact, body language) and oral (listening, telephone etiquette, grammar) skills; asks pertinent

questions; listens attentively to others, notifies instructor in advance of absences or tardies.

SATISFACTORY ACADEMIC PROGRESS

In order to receive and continue to receive financial assistance of any type, a student must maintain satisfactory academic progress. The Financial Aid Administrator will require a progress report to be completed and submitted to the Financial Aid Office prior to each disbursement.

Students are considered to be making Satisfactory Academic Progress (SAP) if they successfully complete their scheduled clock hours, achieve a specific cumulative grade average (CGA), and do not exceed the maximum time limits to complete their course of study. Each student's academic progress will be checked at 450 clock hours (300 hours for CHCA) and prior to subsequent disbursements for students enrolled in programs one academic year or greater. Progress will be checked at the half-way point for programs less than one academic year.

No SAP is required prior to the first disbursement.

REQUIREMENTS FOR CERTIFICATE

Certification for FULL program completion is determined by (1) mastery of 85% of program competencies as determined by the instructor, (2) a final grade of 75% or better (80% Health Sciences) in each course, and (3) proof of state-mandated basic skills levels; (4) attendance of a minimum of 90% of scheduled program hours (95% of scheduled hours for some Health Science programs). Under unique circumstances, instructors in our competency-based programs have the discretion to graduate students who fall short of 90% as long as #1-3 above are met. Students meeting these requirements are awarded a full program certificate.

A record of the student's progress is kept up-to-date by the instructor and available to the student in the FOCUS Student Portal. High school grades are reported to the assigned high school.

DRESS CODE

Each program at FMTC has a designated uniform.

Uniform Required: Dark blue FMTC uniform shirts are included in the tuition (4 work shirts, 1 dress shirt). Dark blue work pants (no jeans) and safety shoes – athletic style (composite toe, ok. **No work boots, construction boots or cowboy boots**). A visible FMTC student ID badge.

Program dress shirt: A program dress shirt is included in the tuition. Students receive this shirt after they have successfully completed the first part of the Marine Service Technologies program. This shirt is worn on Fridays and for special events (field trips, boat shows, etc.).

PROGRAM STRUCTURE

Below is a summary of the Marine Service Technologies program structure. For more detailed information for each course, visit the FLDOE Curriculum Framework website: <https://www.fl DOE.org/academics/career-adult-edu/career-tech-edu/curriculum-frameworks/2023-24-frameworks/transportation-distribution-logistics.stml>.

OCP A Marine Rigger

Students completing the competencies in this course will likely be able to obtain entry-level employment as an assistant rigger at marine facilities in the rigging department, delivering new boats, motors, trailers, and other marine related equipment to new owners.

OCP B Outboard Engine Technician

Students completing the competencies in this course will be qualified to assist marine service technicians in servicing small outboard engines. Gain entry-level employment as a marine technician or marine rigger.

OCP C Outboard Diagnostics Technician

Students completing the competencies in this course will be able to work in a marine service department doing general outboard maintenance on all makes and sizes of two and four stroke outboard propulsion units and assist in the diagnostics

of marine electrical systems.

OCP D Inboard Gas Engine Technician

Students completing the competencies in this course will be qualified to assist marine sterndrive technicians doing general sterndrive maintenance on all makes and sizes of four stroke sterndrive propulsion units and assist in the diagnostics of marine electrical systems.

OCP E Drive Train Technician

Students completing the competencies in this course will be qualified to assist marine inboard technicians doing general inboard maintenance on all makes and sizes of inboard propulsion units and assist in the diagnostics of marine electrical systems.

OCP F Inboard Diesel Technician

Students completing the competencies in this course will be qualified to assist marine diesel technicians doing general diesel engine maintenance on all makes and sizes of diesel propulsion units and assist in the diagnostics of marine electrical systems.

TEXTBOOKS

Required textbooks for the Marine Service Technology program can be found on the disclosure fee sheet located on the program's page on the FMTC website: <https://fortmyerstech.edu/course/marine-service-technologies/>