

Program Syllabus

Welding Technology-Advanced

Program Number: J400410

Program Hours: 750

Instructor: Steve Dorriety
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Program Description:

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the manufacturing career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the manufacturing career cluster. This program offers a broad foundation of knowledge and skills to prepare students for employment in the welding industry.

The content includes but is not limited to planning, management, technical and product skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

The purpose of the Welding Technology-Advanced program reflects Emerald Coast Technical College's mission as evidenced by the desire to provide students with the training and education that is required to function successfully in the professional workforce.

Prerequisites: Welding Technology

Industry Certification: American Welding Society (AWS)

Occupational Completion Points:

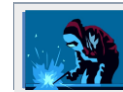
OCP	Course Number	Course Title	Length	SOC Code
A	PMT0075	Advanced Welder 1	600 hours	51-4121
B	PMT0076	Advanced Welder 2	150 hours	51-4121

Program objectives and outcomes include but are not limited to:

- 01.0 Apply intermediate shielded metal arc welding (SMAW) pipe welding (Class-B Pipe Welder) skills.
- 02.0 Apply and understand fabrication techniques using pipe fitting techniques.
- 03.0 Apply advanced gas-tungsten arc welding (GTAW) pipe skills.
- 04.0 Apply advanced gas-tungsten arc welding (GTAW) and shielded metal arc welding (SMAW) heavy-wall pipe skills.
- 05.0 Apply emerging welding technologies.

Grading Scale:

- | | |
|---|------------|
| A | 93-100 |
| B | 84-92 |
| C | 70-83 |
| F | 69 & Below |



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Evaluation/Assessment:

Core Curriculum
Advanced Welder 1
Advanced Welder 2

Satisfactory Progress:

This program is a planned sequence of instruction consisting of two occupational completion points. When the recommended sequence is followed, the structure is intended to prepare students to complete the industry certifications associated with this program of study. This program adheres to the Satisfactory Progress guidelines listed in the ECTC Catalog and Student Handbook.

Instructional Delivery Methods:

This program is a traditional program taught on ECTC campus. It uses a variety of instructional delivery methods including but not limited to:

- ❖ Hands-on training
- ❖ Lectures
- ❖ Videos

Conferences and Assistance:

Please contact the instructor first. Counselors located in student services are also available.

Classroom Location:

761 N. 20th Street DeFuniak Springs, Florida 32433
Building 100

Office Location:

761 N. 20th Street DeFuniak Springs, Florida 32433
Building 100

Office Hours:

Regular office hours for the instructor are 4:30-5:00 p.m. (Mon-Thurs) or as scheduled by appointment.

Attendance:

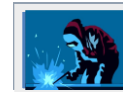
Attendance is mandatory. Students who believe that attendance may present a problem should discuss their situation with the instructor and with student services. Meet with instructor to schedule makeup hours.

Meeting Times/Contact Hours:

Refer to student schedule for class meeting times.

Equipment:

Students will use welding equipment, materials and safety gear used in the industry.



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Safety:

- Safety is priority one.
- Report any unsafe conditions to the instructor immediately.
- If you are not comfortable or confident with any lab or project, stop and notify instructor.

Emergency Procedures:

- Emergency exits are clearly marked.
- As part of regular classroom instruction, students will be asked to participate in regular safety and emergency drills.
- Fire extinguishers are located in the lab.
- An eyewash station and first aid kits are located in the lab.

Rules and Regulation / Policies and Procedures:

Students will follow all rules/regulations outlined in the Program Handbook and the Emerald Coast Technical College Catalog and Student Handbook.

General Information:

Refer to the ECTC Catalog and Student Handbook and the program handbook, both located at <http://www.ECTC.edu>, for additional information:

- Career and Counseling Services
- Services for Students with Disabilities
- Student Grievance Procedures
- Leave of Absence
- Withdrawal
- Forms