Welding Technology

Cocoa Campus, Industrial Center, Building 16
1519 Clearlake Road
Cocoa, FL 32922

Assistant Professor: Kenneth Cox, CWE/CWI

Welders Hold the World Together

Career & Technical Program
Coordinator: Donna Hamilton
(321) 433-7499

American Welding Society
Educational Institution Member
Program courses and textbooks are subject to change without notice.

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Revised October 2015
Revised April 2016
Ken Cox, Program Manager/Assistant Professor

- Degrees
  - Bachelor of Science, Mechanical Engineering, Indiana State University, 1997
  - Associate in Science, CAD Drafting, Indiana Vocational Tech, 1993
  - 5 year Apprenticeship, Plumber & Steamfitters UA/Department of Labor

- Certifications
  - CWE/CWI Certified Welding Educator, Certified Welding Inspector
  - ASNT-SNT-TC: UT Level I and II

- Professional Memberships and Awards
  - 30 year United Association Journeyman, Plumbers & Steamfitters, Local 157 Member
  - American Society Mechanical Engineers (ASME)
  - Member, United Faculty of Florida
  - Phi Beta Kappa Honor Society

Tom Merry, Lab Specialist

Tom is a recent graduate of the Welding Technology program. He has a BS in Career Occupations from Eastern Illinois University, an AS in Fire Science from the Community College of the Air Force and has retired as a Wild land Firefighter/Instructor from the Florida Department of Agriculture, Orlando, Florida. Tom assists our faculty and students with their skills, projects and lab support. He is much appreciated by our welding team.
Donna Hamilton, Coordinator
Career & Technical Program

Donna is the program Coordinator to the Welding Technology program, instructors and students. She provides clerical and administrative support to the program, as well and the Technical Trades department located on the Cocoa Campus. Donna helps guide our students through the program application process, orientation, registration, program progression and graduation. She is an important member to the success of this program.
EFSC’s Welding Technology program provides the theoretical and practical experience necessary to develop a basic foundation in the skills of welding. The program is designed to train students to become certified welders in pipe and structural steel and in ferrous and nonferrous base materials according to the American Welding Society (AWS), American Society of Mechanical Engineers (ASME), American Petroleum Institute (API) and American National Standards Institute (ANSI) approved codes. Graduates of the program will be prepared for entry-level positions as welders and are eligible to take the AWS certification exam.

Our instructors will observe the student's progress of various welding processes. Individualized instruction will enhance welding skill sets and competencies along with work habits, safety skills and clean-up procedures in the lab. And, as always, OSHA industry standards will be reinforced. Students must demonstrate proficiency in the four major welding positions: flat, horizontal, vertical and overhead. This is accomplished in four areas of welding: oxy acetylene, shielded metal arc, gas metal arc and gas tungsten arc welding. Students must also demonstrate proficiency in the various subject lecture classes and testing.

Schedule
The Welding Technology program operates on a full-time day schedule: 7:30 a.m. to 2:50 p.m., Monday - Thursday during the fall and spring terms. It is available only on the Cocoa Campus.

Student Evaluation and Grading
Students will be graded based on assessment of their classroom performance, lab performance, attendance, adherence to safety regulations and mastery of employability skills. Failure to maintain acceptable standards in one or more of these areas will compromise the student’s ability to continue in the program. Students must also maintain a “C” average (2.0) in the Welding Technology program.

Students who drop below a C average may be placed on academic probation for the next term and if they do not attain a C average in the next term they may not be allowed to continue in the program.

Classroom Performance
Classroom performance includes completion of chapter assignments, results on tests and quizzes, participation in class.
Lab Performance
Lab performance includes demonstrating proficiency in weld processes, completion of weld training tasks, weld preparation tests, functional welding tests, process quizzes and participating in shop cleanup.

Attendance
To receive the benefits of the welding program, students must attend class regularly and on time. Students are held accountable for regular, punctual class attendance, as well as for the constructive use of class time during each school day.

Equipment to Be Purchased by the Student
High quality protective clothing, such as gloves, apron, leather jacket, welding helmet, is required. The equipment listed below need not be purchased all at one time. Each welding process may require different items. The equipment may be purchased at a reasonable cost with a student discount at local welding supply companies (Airgas, Cocoa and Boggs Gases, Cocoa).

- Welding goggles with #4 or #5 filter lens
- Welding helmet with flip front lens holder, #10 filter lens and several clear lenses
- Light gloves, short
- Welding gloves, long gauntlet
- Welding leathers
- Industrial leather shoes
- Pliers, 6” slip joint
- Tip cleaners
- Wire brush
- Striker and flint
- Chipping hammer, cross chisel
- Tape measure, 6 ft.
- Soapstone and holder
- Calculator with Trig functions
Employability Skills
Students are graded not only on their successful completion of tasks, but also on their performance of the employability skills listed below. The instructors and members of the welding industry agree that these 14 items are vital aspects of successful employment. The lack of these skills is often the reason workers lose their jobs.

1. Reports on time
2. Attends school daily
3. Follows safety procedures
4. Uses authorized equipment and supplies
5. Avoids wasting materials and time
6. Returns tools usable and in place
7. Appropriate attire as required by company policy
8. Keeps accurate records
9. Works only on training tasks
10. Leaves work area clean and in order
11. Accepts supervision in a positive manner
12. Works cooperatively with others
13. Avoids interfering with others
14. Stays in authorized areas

Safety
Instructors and lab assistants enforce safety regulations at all times and with all students. Violation of safety regulation(s) endangers not only the student ignoring the regulation(s), but others as well. The student will be immediately informed of any safety violation committed in the shop or lab. Students who commit repeated safety violations will be withdrawn from the program.

- The Shop Safety Agreement: At the beginning of the program, the student will sign the Shop Safety Agreement and return it to the instructor. High school students must also obtain a parent’s signature on the agreement. No student may begin work in any shop or lab until a copy of the Shop Safety Agreement, properly signed and dated, has been submitted to the instructor.

- Eye Safety: Personal eye protection is mandatory in the welding lab. Students are required to use proper eye protective equipment at all times in the welding lab. *A pair of safety glasses in a shirt pocket will not keep that fragment of flying metal out of your eye.*

- Fire Safety: Students will receive necessary information regarding the safe handling and use of flammable liquids and gases. Students are required to follow these procedures. Students should report any electrical problems to the instructor. Students should never try to make electrical repairs themselves.

- Dress Code: Proper clothing is required for welding safety. Baggy clothing is hazardous in the welding lab and will not be worn. *Long hair must be capped and covered.* Face piercings must be removed. The instructor will reserve the right to assess all foot and clothing for welding safety.
Skilled welders are in greater demand than ever! Nearly everything we use in our daily life is welded or made by equipment that is welded. Welders help build metal products from coffee pots to skyscrapers. They help build space vehicles and millions of other products ranging from oil drilling rigs to oil refineries, nuclear power plants and automobiles. In construction, welders are virtually rebuilding the world, extending subways building bridges, and helping to improve the environment by building pollution control devices. The use of welding is practically unlimited. There is no lack of variety in the type of work that is done (content provided by Hobart Institute of Welding Technology).

According to the U.S. Department of Labor, Bureau of Labor Statistics, about 2 out of 3 jobs are in manufacturing industries.

Visit the DOL website http://www.bls.gov/oes/2013/may/oes_36740.htm#17-0000 for more information, employment opportunities, earnings, etc for the welding profession. Also, visit our Eastern Florida State College Career & Technical Programs/Welding website for up-to-date college, regional and national welding information.
** Tuition cost is based on clock hour and is **subject to change.**

ADDITIONAL FEES
- EFSC Application for Admission - $30
- Graduation - $20
- Accident and Liability Insurance – Through EFSC - Student pays $26.50/year
- Parking Decal - $42.60/year
Course Descriptions

PMT 0101-Welding Symbols and Blueprints-This course introduces the student to weld symbol interpretation in accordance with American Welding Society (AWS) standards. Welding details with symbols layout provide a systematic approach to blueprint reading. Fundamentals of drawing elements, scales, layouts, and title blocks are included.

PMT 0104-Fundamentals of Metallurgy-This course provides basic principles of metallurgy. Emphasis is placed on metallurgical terms for metal structures common to the science of materials. Understanding the distinctions between metallic properties of strength, hardness, and ductility provides insight for managing desirable material properties. Differences between ferrous and nonferrous metals are covered in simple definitions, diagrams, and charts highlighting standard industry terms and practices related to metal.

PMT 0121-Shielded Metal Arc Welding Principles-This course addresses principles related to Shielded Metal Arc Welding (SMAW) including SMAW power supplies, electrode holders, equipment set-up, joint configuration, layout, electrode selection, electrode manipulation, arc control, finished bead characteristics, and safety.

PMT 0131-Gas Tungsten Arc Welding Principles-This course provides students with the fundamentals of gas tungsten arc welding (GTAW). Emphasis is placed on power sources, controls, polarity settings, and high frequency usage concepts. Lectures will focus on GTAW torch components, setup, and safety.

PMTC 0111- Oxygen/Fuel Gas Processes-This course provides basic orientation for shop and construction site safety. Instruction includes oxyacetylene welding and cutting processes, safety and proper handling of compressed gas cylinders, fluent equipment set-up, operation, and storage. Emphasis is placed on proper adjustment of welding and cutting flames and material preparation. Use of personal protective equipment (PPE) and basics of shop safety are introduced. Lab Fee.

PMTC 0134- Gas Metal Arc Welding Principles-This course introduces terminology and procedures related to Gas Metal Arc Welding (GMAW, "MIG"), including power source configurations, hardware, equipment set-up, and consumable gun components. Students are presented with practical applications related to shielding gas flow, weld bead characteristics, and weld bead geometry needed for certifications in fillet and groove weld fabrication. Lab Fee.

PMTC 0153- Plasma Arc Cutting-This course introduces the student to the process of plasma arc cutting. The student will develop techniques of applying plasma arc cutting skills to nonferrous metals.

PMTC 0164- Welding Fabrication Fundamentals and Machine Elements-This course introduces general drawing fundamentals, drawing construction, sketching, and drawing view placement, along with fabrication techniques, fabrication set-up, fixtures, jigs, and templates. Fabrication fundamentals, including tack and fit-up technique, using squares, plumb-bobs, levels, rulers, and machine elements, are also introduced. Lab Fee.
PMTL 0104- Fundamentals of Metallurgy Lab - This course covers basic material identification, file hardness testing, and comparisons of hardness scales. Demonstrations are given utilizing a Rockwell Tester for material hardness, along with tests for heat affected zone (HAZ) hazards due to welding processes. Experiments in heat treatment operations and comparison with tensile strength elongation and hardness are conducted. Lab Fee.

PMTL 0121- Shielded Metal Arc Welding Lab 1 - This course introduces the student to basic arc manipulation, running beads, and cleaning the weld. Applications relating to starts/stops, bead geometry, and bead placement with advancement into vertical and overhead positions from flat and horizontal positions are addressed. General lab safety related to shielded metal arc welding is covered. Lab Fee.

PMTL 0131- Gas Tungsten Arc Welding Lab 1 - This course provides students with technical and practical skills needed to perform gas tungsten arc welding (GTAW) processes on ferrous and nonferrous base materials. Fundamentals of GTAW safety are addressed.

PMTL 0138- Gas Tungsten Arc Welding Lab 2 - This course provides students with advanced instruction in a lab setting for Gas Tungsten Arc Welding (GTAW) practical skills needed to obtain certifications on ferrous and nonferrous base materials. Emphasis is placed on developing consistency in weld bead geometry and weld bead placement, along with proper set-up and finishing of GTAW welds. Lab Fee.

PMTL 0161- Pipe Welding – Basics - This course provides students with basic pipe joint fit-up and weld bead placement for grooved butt welds. Emphasis is placed on vertical E6010 root with E7018 hot, fill and cap to completion. This course provides students with basic pipe end prep and joint fit-up techniques, along with weld bead placement for grooved butt welds. Emphasis is placed on uphill E6010 root pass with E7018, hot, fill and cap on 6" SCH80 carbon steel. Lab Fee.

PMTL 0165- Pipe Welding – Advanced - This course provides students with advanced filler material (F group) combinations needed to obtain advanced welding process certification. The use of Shielded Metal Arc Welding (SMAW, or "Stick"), Gas Metal Arc Welding (GMAW or "MIG"), and Gas Tungsten Arc Welding (GTAW, or "TIG") combined processes on low carbon and corrosion-resistant steel (stainless steel) is emphasized. This course is geared toward 5G and 6G welding positions. Lab Fee.

PMTL 0168- Pipe Welding Certification - This course is designed to provide instruction for students working toward certification in plate, pipe, and tubing for multiple combinations of filler materials, base materials, and positions in accordance with American Welding Society (AWS) standard D1.1, American Petroleum Institute (API) code 1104, and American Society of Mechanical Engineers (ASME) welding codes. Lab Fee.
**Physical Demands of the Welding Technology Program**

**Arm-Hand Steadiness** — The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.

**Control Precision** — The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.

**Finger Dexterity** — The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.

**Problem Sensitivity** — The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.

**Manual Dexterity** — The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.

**Multi-limb Coordination** — The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.

**Near Vision** — The ability to see details at close range (within a few feet of the observer).

**Hearing Sensitivity** — The ability to detect or tell the differences between sounds that vary in pitch and loudness.

**Deductive Reasoning** — The ability to apply general rules to specific problems to produce answers that make sense.

**Extent Flexibility** — The ability to bend, stretch, twist, or reach with your body, arms, and/or legs.

(Source: [http://www.occupationalinfo.org/onet/93914a.html#ABILITIES](http://www.occupationalinfo.org/onet/93914a.html#ABILITIES))

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**Applicants for the EFSC Welding Technology Program must meet the following physical requirements.**

- Must be able to follow all safety standards in each shop
- Must be able to lift 50 pounds up to eye level without assistance
- Must be able to communicate orally with a person 6-10 feet away
- Must be able to diagnose mechanical failures that are distinguished audibly
- Must be able to visually read information retrieved from our informational sources, computers, and manuals
- Must have a valid driver's license
- Must have required tools for use throughout the course of study
Textbook List

Two textbooks are required and used as general references throughout the program.

**METALLURGY** (S66.65) ISBN: 1-605250793  
Author: Daniel A. Brandt  
Publisher: Goodheart and Wilcox

**MODERN WELDING** (S82.00) ISBN: 1-56637-987-8  
Authors: Althouse-Turnquist-Bowditch & Bowditch  
Publisher: Goodheart and Wilcox

Study guides listed below are published by the Hobart Institute of Welding Technology

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<thead>
<tr>
<th>COURSE</th>
<th>TEXTBOOK / STUDY GUIDES</th>
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<tr>
<td>PMT 0101</td>
<td>Welding Symbols &amp; Blueprints</td>
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<tr>
<td></td>
<td>EW342 Symbols for Welding</td>
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<td>EW459 Blueprint Reading for Welders &amp; Fitters</td>
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<td>PMT 0121</td>
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<td>EW369 SMAWB Shielded Metal Arc Welding, Basic</td>
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<tr>
<td>PMTL 0121</td>
<td>Shielded Metal Arc Welding Lab 1</td>
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<td>EW369 SMAWB Shielded Metal Arc Welding, Basic</td>
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<tr>
<td>PMTC 0164</td>
<td>Welding Fabrication Fundamentals (8 wks)</td>
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<td>EW369 SMAWB Shielded Metal Arc Welding, Basic</td>
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<tr>
<td>PMTC 0111</td>
<td>Oxygen/Fuel Gas Processes (8 wks)</td>
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<td>EW269 OAW Oxyacetylene Welding, Cutting &amp; Brazing</td>
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<td>PMT 0131</td>
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<td>EW369 GTAW Gas Tungsten Arc Welding</td>
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<td>Pipe Welding – Basic</td>
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<td>EW369 SMAWP-U Shielded Metal Arc Welding Pipe Uphill</td>
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<td>EW472 Shielded Metal Arc Welding, Technical Guide</td>
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<td>EW369 SMAWA2 Shielded Metal Arc Welding, Pre-Pipe</td>
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<td>PMTL 0131</td>
<td>Gas Tungsten Arc Welding Lab 1</td>
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<td>EW369 GTAW Gas Tungsten Arc Welding</td>
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<td>PMTL 0104</td>
<td>Fundamentals of Metallurgy Lab (8 wks)</td>
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<td>EW470 GTAW Gas Tungsten Arc Welding</td>
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<td>PMTL 0165</td>
<td>Pipe Welding – Advanced</td>
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<td>EW369 GTAWP6 Gas Tungsten-Shielded Metal Arc Welding 6 Inch Pipe</td>
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<td>EW369 SMAWP-U Shielded Metal Arc Welding Pipe Uphill</td>
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<td>PMTC 0134</td>
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<tr>
<td>PMTL 0168</td>
<td>Pipe Certification</td>
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<td>No textbook required</td>
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Revised September 2015
Applications are due on or before **November 10th each year**

Applicants for the Welding Technology program must meet the following mandatory requirements to be evaluated for admission. The selection process will be based upon the admission criteria point system (fair and impartial). Applicants with the *highest* total number of points based on the information contained in their application file will be finalists for the program. Applicants meeting the criteria, but not selected will be placed on a waiting list. Individuals on the waiting list may be selected if any slots become available before the end of the first week of class (add/drop). Students not selected after the first week of classes, must reapply during the next school year. Welding students from other community colleges or vo-tech centers transferring to EFSC will be evaluated on a case-by-case basis.

**Mandatory requirements for application review**

1. Applicants must complete an Application for Admission to EFSC (checklist item # 1).
2. Applicants must submit all current high school and college transcripts (checklist item # 2).
3. Applicants must complete EFSC student orientation (checklist item # 3).
4. Applicants must complete the Welding Technology Application for Admission (checklist item # 4).

Applicants must score above 80 points in the admission criteria point system to be evaluated. (Note: Scores above 80 do not guarantee acceptance into the program.)

**Recommended Items**

- Completion of TABE at EFSC (checklist item # 5) ................................................................. 40
- *Meets or Exceeds cutoff scores* (checklist item #5) ........................................................... TBD

| **Employer Recommendation** from your current welding employer detailing your work experience (checklist #6a) | ................................................................. 20 |
| **Employer Recommendation** from your past welding employer detailing your work experience (checklist #6b) | ................................................................. 15 |
| **Recommendation** from a non-welding employer recommending you for the program (checklist #6c) | ................................................................. 5 |

*(Choose only one of the above)*
Admission Point System continued

Additional Points

A typed Statement of Intent from the applicant stating their experience in the welding field (if any) and the reason(s) they would like to enter the EFSC Welding program (checklist #7) ................................................................. 10

Valid Florida driver’s license (checklist #8) ................................................................. 10

To obtain more information on the criteria for each category see the Admission Checklist on page 15.

Space Coast Student Chapter

Our Welding Technology students are invited to join the only Florida AWS student chapter. There are many rewards associated with membership in the Space Coast chapter:

- Annual subscription to the Welding Journal
- Networking opportunities
- Discounts
- Free pass to PowerGen International and the AWS Welding Show
- Career building, etc.
- Membership per year - $15
- Free one membership shirt
1. Complete an Application for Admission to Eastern Florida State College and submit with a $30 non-refundable application fee to the campus Admissions and Records Office. Applications are available online only at the EFSC website, www.easternflorida.edu, click on Student Center, click Admissions, Records & Registration, click Admissions Application.

Note: Previous EFSC students who have not attended EFSC within the past two years must complete a re-admit form. This can also be obtained online.

2. Submit Transcripts. All current high school, GED scores, and college transcripts must be mailed to the campus Admissions and Records Office housing your Application for Admission to EFSC. Final official transcripts must be sealed and mailed from the school to EFSC.

    Cocoa Campus - 1519 Clearlake Road, Cocoa, FL 32922
    Melbourne Campus - 3865 North Wickham Road, Melbourne, FL 32935
    Palm Bay Campus - 250 Community College Pkwy, Palm Bay, FL 32909
    Titusville Campus - 1311 North U.S. 1, Titusville, FL 32796

3. EFSC Orientation. Complete mandatory EFSC new student orientation online - www.easternflorida.edu, click on Student Services, and click on Orientation (print out for your records). Or in person - call 433-7300 or any campus Admissions and Records Office to reserve a seat at the next orientation.

4. Complete the Welding Technology Application for Admission. This application is on page 20. This application MUST be completed in its entirety and received on or before November 10, each year. Applications submitted after November 10 are not guaranteed consideration. There is no fee for this application. The application should be mailed or delivered to Eastern Florida State College, Welding Technology, 1519 Clearlake Road, 16-214, Cocoa, FL 32922-6597.

5. Schedule and take the TABE (Test of Adult Basic Education) by calling one of the test administrators listed below. Ensure the test administrator knows you are applying for entry into the welding program. A photo I.D. will be required for admission into the testing area. Allow 4 hours to complete the test.

    Cocoa Campus Test Administrator 321-433-7352
    Melbourne Campus Test Administrator 321-433-5584
    Palm Bay Campus Test Administrator 321-433-5251
    Titusville Campus Test Administrator 321-433-5034

The TABE is required by the Florida Department of Vocational Education. It must be completed with a score of at least 9 in Mathematics, 9 in Reading and 9 in Language before a student is eligible for graduation. Applicants obtaining test scores lower than the minimum levels should see a learning lab specialist at any EFSC campus to identify appropriate remediation to pass the test. (If the applicant meets or exceeds the TABE cutoff scores in all areas, then the applicant will receive the additional sum of their score in points. Example: Reading 10.5, Math 12.0, Language 10.5 = 33 points.)
NOTE: The TABE can be taken again to pass the test, per EFSC guidelines. The learning lab will assist you in your efforts to successfully complete the test. After taking the test the first time, find out your results. If you did not pass the first time, schedule to meet with the Vocational Preparatory Instruction Specialist in all four learning labs, and they will assist you further.

Cocoa Campus Learning Lab 321-433-7330
Melbourne Campus Learning Lab 321-433-5520
Palm Bay Campus Learning Lab 321-433-5251
Titusville Campus Learning Lab 321-433-5034

6. Letters of Recommendations – All letters of recommendation must be typed on company/school letterhead signed by the employer/ instructor with valid and up-to-date contact information. The letter must detail your welding work experience, if from a welding shop. All recommendations must be from non-relatives. Also, all letters of recommendation and work experience must be itemized and documented on the Work Experience Form on page 21 (250 word maximum, double-spaced, Times Roman font, 12 point, black).

a. Current Welding Work Experience - Applicants currently employed in the welding industry (minimum of 90 days).
b. Past Welding Work Experience - Applicants with a minimum of one year full-time or equivalent full-time work experience within the last two years involving welding.
c. Non-welding employer - from any employer for one year of continuous employment.

7. A typed Statement of Intent from the applicant stating their experience in the welding field, if any, and the reason(s) they would like to enter the EFSC welding program (250 word maximum, double-spaced, Times Roman font, 12 point, black).

8. Submit a legible photocopy of your valid Florida driver’s license with your application. This copy should be stapled to the back of the application form.
STUDENT ID: After registering for classes, visit the Library Circulation desk on any campus (Cocoa campus building 12-first floor) for a FREE Photo Student ID card (bring a copy of your class registration and a photo ID). Bring a copy of your Student ID to the welding program office, 16-214.

TRANSCRIPTS: ALL current college and high school transcripts/GED scores must be sent to the campus Admissions and Records Office housing your EFSC Application for Admission. Final official transcripts must be sent from the school to EFSC.

FINANCIAL AID and VETERANS: If you are requesting financial aid, you must apply online - www.fafsa.ed.gov. If you receive financial aid, make sure to visit the financial aid office each semester to update your file. All veterans please visit the Veterans Affairs Office.

REGISTER FOR CLASSES: Our program administrative assistant will register you for all welding classes.

FEES: Fees may be paid by mail, online (secure web page), or in person at any campus cashier’s office. All fees must be paid prior to the fee due date. Students will be dropped for non-payment if payment is not made by the fee due date. See the Schedule of Classes for fee and date information.

BOOKS/SUPPLIES: Bring your class schedule to the EFSC Bookstore. They will help you find the books for your classes. Textbooks for the Welding Technology program are available only at the Cocoa Campus bookstore (building 6).

PARKING DECAL: Required for all active students. Bring your Student ID and tag number to the Security office, building 1, Cocoa Campus. Cost $21.20 per year. Must purchase before classes begin.

INSURANCE: Participation in the Welding Technology program requires accident and liability insurance coverage. A supplemental insurance is provided through EFSC. The fee for accident and liability ($26.50/year) is associated with the PMT 0101 course.

PROGRAM PROGRESS: Students must maintain a “C” average (2.0) in the Welding Technology program. Students who drop below a C average may be placed on academic probation or suspension for the next term. If they do not attain a C average in the next term they may not be allowed to continue in the program.

Additional Information for Accepted Students
Building 1 – District Security
Building 2 – Registrar/District FA
Building 3 – Lifelong Learning Center
Building 4 – Bernard Simpkins Fine Arts Center
Building 5 - Business Center
**Building 6 – Bookstore**
Building 7 – Science Building
Building 9 – Classroom Building
Building 10 – Veterans Memorial Amphitheater

**Building 11 – Student Center**
- Admissions & Records Office (room 219)
- Cashier –upstairs- (room 204)
- Career Center (room 212)
- Financial Aid & Veterans Affairs (room 209)
- Information Desk (second floor)
- Student Advisors (room 219)
- Test Administrator (room 206)

Building 12 – EFSC/UCF Joint Use Library
- Circulation Desk (first floor)
- Learning Lab (third floor)
Building 13 – Roger W. Dobson Building
Building 14 – Vocational Building

**Building 16 – Industrial Center**
- Welding Technology Program (rooms 101, 106)
Building 17 – Health Sciences Career Center
Building 18 – Gymnasium/YMCA
Building 19 – Astronaut Memorial Planetarium & Observatory
Building 20 – HCVAS Health Sciences Center
Building 21 – Veterinary Technology
Building 22 - Maintenance
Building 23- Receiving
Building 25- STEM (not shown)
Building 42 – Foundation House
The job opportunities in the welding, manufacturing, fabrication, and construction industries are unlimited for the individual who is looking for a diverse trade. Our goal is to prepare you with the skill-set needed to succeed technically, along with practical hands-on applications. Industry expansion has developed opportunities in welding applications, along with Supervisory, Service Sales, Inspection, Testing/Quality and Management careers.

Companies that have hired EFSC welding students:

- General Electric Siemens
- Harper Mechanical
- PFC Companies
- Coastal Steel, Inc.
- Beyel Bros. Crane Co.

What kind of salary can a trained welder expect?

$12 to $17 per hour to start – – Experienced, up to $26 with specialized companies

Welding is a highly skilled and high-paying trade that requires training and determination, along with continuous process and certification upgrades.
The applicant is responsible for providing all required information (including all copies) prior to the deadline. All applicants will be notified of their status in the program. Notification letters will be mailed. If you have any questions concerning the Welding Technology program or the admission procedure please call the Donna Hamilton at (321) 433-7499.

---

WELDING TECHNOLOGY PROGRAM  
Application for Admission  
PLEASE PRINT INSIDE THE BOXES.

**PERSONAL DATA**  
USE UPPER CASE BLOCK LETTERS  
USE BLACK INK AND CORRECT ERRORS WITH WHITE CORRECTION TAPE  
DIFFERENTIATE BETWEEN THE LETTER O AND THE NUMBER ZERO BY USING A ∅ FOR ZERO

<table>
<thead>
<tr>
<th>STUDENT ID NUMBER</th>
<th>EMAIL</th>
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<th>LAST NAME</th>
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<table>
<thead>
<tr>
<th>FIRST NAME</th>
<th>MIDDLE NAME</th>
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<th>PREVIOUS NAME(S) UNDER WHICH TRANSCRIPTS/RECORDS MAY BE RECEIVED</th>
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<th>TELEPHONE NUMBER – WORK</th>
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<th>DOB (mo/day/yr)</th>
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<th>Have you ever been convicted of a felony, misdemeanor or driver license revocation?</th>
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<td>Yes  No</td>
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If yes, please explain.
**EDUCATIONAL DATA**
Copies of ALL High School and College Transcripts are required.

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<tr>
<th>SCHOOL NAME</th>
<th>LOCATION</th>
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<td>College 2</td>
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<td>Vocational/ Technical Program</td>
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**WORK EXPERIENCE**
List your work experience for the past 5 years, in order, beginning with the MOST RECENT.

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**APPLICATION CHECKLIST**
- EFSC online Application completed EFSC
- New Student Orientation completed
- TABE taken – (pass with a 10.5 or higher - extra points)
- Two letters of reference
- Statement of Intent (250 words)
- Copy of valid Florida Driver’s License
- Copy of Student ID (by first week of class)

I declare under penalty of perjury, punishable by law as a misdemeanor under section 837.06, Florida Statutes, that the information in this application is true and correct.

Applicant Signature (Required for Processing) Date

_Eastern Florida State College is an equal access/equal opportunity organization._