



## **WELD 1010 Oxyfuel and Plasma Arc Cutting COURSE SYLLABUS Summer Semester 2020 (202016)**

### **COURSE INFORMATION**

Credit Hours/Minutes: 4/4500  
Class Location: Room 416  
Class Meets: M-R 1:00-4:00 p.m.  
CRN: 60262

### **INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Mr. Michael Crumpler  
Email Address: [Michael Crumpler mcrumpler@southeasterntech.edu](mailto:Michael.Crumpler@mcrumpler@southeasterntech.edu)  
Vidalia Campus/Office Location: Room 417  
Office Hours: Tuesday and Thursday 10:00 – 2:30 p.m.  
Phone: 912-538-3257  
Fax Number: 912-538-3156  
Tutoring Hours (if applicable): See instructor to schedule an appointment

### **SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK**

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php) (<http://www.southeasterntech.edu/student-affairs/catalog-handbook.php>).

### **REQUIRED TEXT**

None

### **REQUIRED SUPPLIES & SOFTWARE**

Shade 5 cutting glasses, leather gloves, long sleeve shirt or welding jacket, striker, Vice grips, combination square, ball peen hammer, 12" Crescent Wrench, 12' tape measure and a 4 ½" angle grinder. You will not be permitted to borrow from the Instructor or your fellow classmates.

Students should not share login credentials with others and should change passwords periodically to maintain security.

### **COURSE DESCRIPTION**

WELD 1010 – Oxyfuel and Plasma Arc Cutting introduces the fundamental principles, safety practices, equipment, and techniques necessary for metal heating and oxyfuel cutting and plasma cutting. Topics include: metal heating and cutting principles, safety procedures, use of cutting torches and apparatus, metal heating techniques, manual and automatic oxyfuel cutting techniques, oxyfuel pipe cutting, plasma torch and theory, plasma machine set up and operation and plasma cutting techniques. Practice in the laboratory is provided.

## **MAJOR COURSE COMPETENCIES**

1. Safety procedures
2. Metal heating and Cutting techniques
3. Manual and Automatic Oxyfuel Cutting Techniques
4. Oxyfuel Pipe Cutting
5. Plasma Torch and Theory
6. Plasma Machine Set Up and Operation
7. Plasma Cutting Techniques

## **PREREQUISITE(S)**

All required

## **COURSE OUTLINE**

WELD 1010 – Oxyacetylene Cutting introduces the fundamental principles, safety practices, equipment, and techniques necessary for metal heating and oxyfuel cutting. Topics include: metal heating and cutting principles, safety procedures, use of cutting torches and apparatus, metal heating techniques, manual and automatic oxyfuel cutting techniques, and oxyfuel pipe cutting. Practice in the laboratory is provided.

## **GENERAL EDUCATION CORE COMPETENCIES**

STC has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

## **STUDENT REQUIREMENTS**

Tests and assignments must be completed on the specified date. Students are also responsible for policies and procedures in the STC E-Catalog.

## **ATTENDANCE GUIDELINES**

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and also interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" in a course.

## STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

**Swainsboro Campus:** [Macy Gay, \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1208

**Vidalia Campus:** [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 108

## SPECIAL NEEDS

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Helen Thomas, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), to coordinate reasonable accommodations.

## SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

## PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

**Swainsboro Campus:** [Macy Gay, \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1208

**Vidalia Campus:** [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 108

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery **MAY NOT** be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

## WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Students who are dropped from courses due to attendance after drop/add until the 65% point of the semester will receive a "W" for the course.

Important – Student-initiated withdrawals are not allowed after the 65% point. Only instructors can drop students after the 65% point for violating the attendance procedure of the course. Students who are dropped from courses due to attendance after the 65% point will receive either a "WP" (Withdrawn Passing) or "WF" (Withdrawn Failing) for the semester.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

## **MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC...)**

Makeup test will be given on the following class meeting date with an acceptable excuse approved by the instructor; any test not made up will result in the student receiving a zero.

## **ACADEMIC DISHONESTY POLICY**

The STC Academic Dishonesty Policy states All forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the STC Catalog and Student Handbook.

## **PROCEDURE FOR ACADEMIC MISCONDUCT**

The procedure for dealing with academic misconduct and dishonesty is as follows:

### **1. First Offense**

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

### **2. Second Offense**

Student is given a grade of "WF" for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

### **3. Third Offense**

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

## **STATEMENT OF NON-DISCRIMINATION**

The Technical College System of Georgia (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member, or citizenship status (except in those special circumstances permitted or mandated by law). This nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes.

The Technical College System and Technical Colleges shall promote the realization of equal opportunity

through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<b>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b>	<b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 165 Phone: 912-538-3126 Email: <a href="mailto:hthomas@southeasterntech.edu">Helen Thomas (hthomas@southeasterntech.edu)</a>	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3230 Email: <a href="mailto:ljonas@southeasterntech.edu">Lanie Jonas (ljonas@southeasterntech.edu)</a>

### ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

### GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on STC’s website.

### ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [STC website](#).

### TCSG GUARANTEE/WARRANTY STATEMENT

*The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

### GRADING POLICY

Assessment/Assignment	Percentage
Cutting Assignments	100%

### GRADING SCALE

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

# WELD 1010 Oxyfuel and Plasma Arc Cutting

## Summer Semester 2020 Lesson Plan

<b>Date</b>	<b>Chapter</b>	<b>Content</b>	<b>Assignments &amp; Tests Due Dates</b>	<b>Competency Area</b>
June 29	Oxyfuel Cutting Equipment, Operation and Set Up	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour Oxyfuel Cutting Equipment and Set Up	Instructor will demonstrate proper Oxyfuel Cutting Set Up and Cutting Techniques, DVD on Oxyfuel Cutting	1,2,3,4,5,6,7,A,B,C
30	Pressure Regulators	Pressure Regulators	Instructor will demonstrate proper regulator pressures for Oxyfuel Cutting .	1,2,3,4,5,6,7,A,B,C
July 1	Welding and Cutting Torches	Welding and Cutting Torches	Demonstration of Oxyfuel Cutting and brazing by instructor.	1,2,3,4,5,6,7,A,B,C
2	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,5,6,7,A,B,C
6	HOLIDAY	HOLIDAY	HOLIDAY	HOLIDAY
7	Oxyfuel Cutting of Pipe	Operation of an Oxyfuel Cutting Pipe Beveler	Demonstration of Pipe Cutting and Use of Pipe beveling equipment.	1,2,3,4,A,B,C
8	Oxyfuel Cutting	Operation of a Track Torch	Demonstration of Track Torch	1,2,3,4,A,B,C
9	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,5,6,7,A,B,C
13	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,5,6,7,A,B,C
14	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,5,6,7,A,B,C
15	Air Carbon Arc Gouging	Air Carbon Arc Gouging	Demonstration of Air Carbon Arc Gouging	1,2,3,4,5,6,7,A,B,C
16	Air Carbon Arc Gouging	Air Carbon Arc Gouging	Students practicing with Arc Gouger	1,2,3,4,5,6,7,A,B,C
20	Plasma Arc Cutting	Plasma Arc Cutting	Demonstration of Plasma Arc Cutting	1,2,3,5,6,7,A,B,C
21	Plasma Arc Cutting	Plasma Arc Cutting	Students practicing with Plasma Arc Cutting	1,2,3,5,6,7,A,B,C
22	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,A,B,C
23	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,A,B,C
27	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,A,B,C
28	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,A,B,C
29	Welding and Cutting Torches	Welding and Cutting Torches	Students practicing oxyfuel cutting.	1,2,3,4,A,B,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
30	Welding and Cutting Torches	FINAL EXAM	Students performing various cutting techniques and torch set up for FINAL EXAM.	1,2,3,4,A,B,C

Competency Areas:

1. Safety procedures
2. Metal heating and Cutting techniques
3. Manual and Automatic Oxy-fuel Cutting Techniques
4. Oxy-fuel Pipe Cutting
5. Plasma Torch and Theory
6. Plasma Machine Set Up and Operation
7. Plasma Cutting Techniques

General Core Educational Competencies

- a) The ability to utilize standard written English.
- b) The ability to solve practical mathematical problems.
- c) The ability to read, analyze, and interpret information.