



**WELD 1120 Preparation for Industrial Qualification  
COURSE SYLLABUS  
Spring Semester 202014**

**COURSE INFORMATION**

Credit Hours/Minutes: 4/4500  
Class Location: Room 416  
Class Meets: T, TH 9:30-12:00 a.m.  
CRN: 40014

**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 1:00 – 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

**NOTICE**

In order to receive your diploma, you must pass this course by receiving welder certifications in the following processes: Shielded Metal Arc Welding (3-G, 4-G) and Flux Cored Arc Welding (3-G) and by completing all required welding assignments.

Please note: I grade tougher in this class being that it is your last.

**REQUIRED SUPPLIES & SOFTWARE**

Long sleeve shirt or welding jacket, welding helmet, clear safety glasses, welding gloves, chipping hammer, wire brush, wire cutters, Kline's, Vice grips, 12" Crescent Wrench, and a 4 ½" angle grinder. All students must have these items by the 1st of class; no exceptions. You will not be permitted to borrow from the Instructor or your fellow classmates.

## **COURSE DESCRIPTION**

This course introduces industrial qualification methods, procedures and requirements. Students are prepared to meet the qualification criteria of selected national welding codes and standards. Topics include: test methods and procedures, national industry codes and standards, fillet and groove weld specimens, and preparation for qualifications and job entry.

## **MAJOR COURSE COMPETENCIES**

1. Test Methods and Procedures
2. National Instructional Codes and Standards
3. Fillet and Groove Weld Specifications
4. Preparations for Qualifications and Job Entry.

## **PREREQUISITE(S)**

1. WELD 1000 Introduction to Welding Technology
2. WELD 1030 Blueprint Reading
3. WELD 1010 Oxyfuel and Plasma Arc Cutting
4. WELD 1040 Flat Shielded Metal Arc Welding
5. WELD 1050 Horizontal Shielded Metal Arc Welding
6. WELD 1060 Vertical Shielded Metal Arc Welding
7. WELD 1070 Overhead Shielded Metal Arc Welding
8. WELD 1090 Gas Metal Arc Welding
9. WELD 1110 Gas Tungsten Arc Welding
10. WELD 1153 Flux Cored Arc Welding

## **COURSE OUTLINE**

This course outlines: Welding Positions, Types of Test, Corrective Procedures, Codes and Standards, Fillet and Groove Welds, Qualifications and Job Entry.

## **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 Southeastern Technical College Catalog and Handbook.

## **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 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 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

## **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 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

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...)**

All assignments must be completed by the last day of class.

### **ACADEMIC DISHONESTY POLICY**

The Southeastern Technical College Academic Dishonesty Policy states that 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 Southeastern Technical College Catalog and 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" (Withdrawn Failing) 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<br>Vidalia Campus<br>3001 East 1 <sup>st</sup> Street, Vidalia<br>Office 165 Phone: 912-538-3126<br>Email: <a href="mailto:Helen.Thomas@southeasterntech.edu">Helen.Thomas@southeasterntech.edu</a> | Lanie Jonas, Director of Human Resources<br>Vidalia Campus<br>3001 East 1 <sup>st</sup> Street, Vidalia<br>Office 138B Phone: 912-538-3230<br>Email: <a href="mailto:Lanie.Jonas@southeasterntech.edu">Lanie.Jonas@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 Southeastern Technical College’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 [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

**TECHNICAL COLLEGE SYSTEM OF GEORGIA (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 |
|-----------------------|------------|
| Hands On Assignments  | 100%       |

**GRADING SCALE**

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

**WELD 1120 Preparation for Industrial Qualification****Spring Semester 2020 Lesson Plan**

Key: Jan – January Feb – February Mar- March Apr – April

| Date     | Chapter                    | Content   | Assignments & Tests Due Dates                                     | Competency Area |
|----------|----------------------------|---|---|-----------------|
| Jan<br>7 | Shielded Metal Arc Welding | First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour<br>SMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.) | Students in lab practicing Shielded Metal Arc Welding techniques. | 1,2,3,4 A,B,C   |
| 9        | Shielded Metal Arc Welding | Shielded Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)  | Students in lab practicing Shielded Metal Arc Welding techniques. | 1,2,3,4 A,B,C   |
| 14       | Shielded Metal Arc Welding | Shielded Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)  | Students in lab practicing Shielded Metal Arc Welding techniques. | 1,2,3,4 A,B,C   |
| 16       | Shielded Metal Arc Welding | Shielded Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)  | Students in lab practicing Shielded Metal Arc Welding techniques. | 1,2,3,4 A,B,C   |
| 21       | Shielded Metal Arc Welding | Shielded Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)  | Students in lab practicing Shielded Metal Arc Welding techniques. | 1,2,3,4 A,B,C   |
| 23       | Gas Metal Arc Welding      | Gas Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)   | Students in lab practicing Gas Metal Arc Welding techniques.      | 1,2,3,4 A,B,C   |
| 28       | Gas Metal Arc Welding      | Gas Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)   | Students in lab practicing Gas Metal Arc Welding techniques.      | 1,2,3,4 A,B,C   |

| <b>Date</b> | <b>Chapter</b>                        | <b>Content</b>  | <b>Assignments &amp; Tests Due Dates</b>                        | <b>Competency Area</b> |
|-------------|---------------------------------------|---|---|------------------------|
| 30          | Gas Metal Arc Welding                 | Gas Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.) | Students in lab practicing Gas Metal Arc Welding techniques.    | 1,2,3,4 A,B,C          |
| FEB 4       | Gas Metal Arc Welding                 | Gas Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.) | Students in lab practicing Gas Metal Arc Welding techniques.    | 1,2,3,4 A,B,C          |
| 6           | Gas Metal Arc Welding                 | Gas Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.) | Students in lab practicing Gas Metal Arc Welding techniques.    | 1,2,3,4<br>A,B,C       |
| 11          | Flux Cored Arc Welding                | Flux Cored Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                    | Students will be in lab practicing Flux Cored Arc Welding.      | 1,2,3,4 A,B,C          |
| 13          | Flux Cored Arc Welding                | Flux Cored Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                    | Students will be in lab practicing Flux Cored Arc Welding.      | 1,2,3,4 A,B,C          |
| 18          | Flux Cored Arc Welding                | Flux Cored Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                    | Students will be in lab practicing Flux Cored Arc Welding.      | 1,2,3,4 A,B,C          |
| 20          | Flux Cored Arc Welding                | Flux Cored Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                    | Students will be in lab practicing Flux Cored Arc Welding.      | 1,2,3,4 A,B,C          |
| 25          | Flux Cored Arc Welding                | Flux Cored Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                    | Students will be in lab practicing Flux Cored Arc Welding.      | 1,2,3,4 A,B,C          |
| 27          | Gas Tungsten Arc Welding              | Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                  | Students will be in lab practicing Gas Tungsten Arc Welding.    | 1,2,3,4 A,B,C          |
| Mar 3       | Gas Tungsten Arc Welding              | Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                  | Students will be in lab practicing Gas Tungsten Arc Welding.    | 1,2,3,4 A,B,C          |
| 5           | Gas Tungsten Arc Welding              | Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                  | Students will be in lab practicing Gas Tungsten Arc Welding.    | 1,2,3,4 A,B,C          |
| 10          | Gas Tungsten Arc Welding              | Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                  | Students will be in lab practicing Gas Tungsten Arc Welding.    | 1,2,3,4 A,B,C          |
| 12          | Gas Tungsten Arc Welding              | Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                  | Students will be in lab practicing Gas Tungsten Arc Welding.    | 1,2,3,4 A,B,C          |
| 17          | Gas Tungsten Arc Welding              | Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds.)                  | Students will be in lab practicing Gas Tungsten Arc Welding.    | 1,2,3,4 A,B,C          |
| 19          | Weld All Around Gas Metal Arc Welding | Students practicing Weld All Around using Gas Metal Arc Welding                                 | Students practicing Weld All Around using Gas Metal Arc Welding | 1,2,3,4 A,B,C          |

| <b>Date</b> | <b>Chapter</b>   | <b>Content</b>   | <b>Assignments &amp; Tests Due Dates</b>  | <b>Competency Area</b> |
|-------------|--|--|---|------------------------|
| 24          | Shielded Metal Arc Welding Weld All Around   | Students practicing Weld All Around Shielded Metal Arc Welding   | Students practicing Weld All Around Shielded Metal Arc Welding  | 1,2,3,4 A,B,C          |
| 26          | Shielded Metal Arc Welding Weld All Around   | Students practicing Weld All Around Shielded Metal Arc Welding   | Students practicing Weld All Around Shielded Metal Arc Welding  | 1,2,3,4 A,B,C          |
| 31          | Shielded Metal Arc Welding Weld All Around   | Students practicing Weld All Around Shielded Metal Arc Welding   | Students practicing Weld All Around Shielded Metal Arc Welding  | 1,2,3,4 A,B,C          |
| Apr 7       | NO CLASS   | SPRING BREAK   | SPRING BREAK  | NO CLASS               |
| 9           | NO CLASS   | SPRING BREAK   | SPRING BREAK  | NO CLASS               |
| 14          | Weld All Around Shielded Metal Arc Welding   | Students practicing Weld All Around Shielded Metal Arc Welding   | Students practicing Weld All Around Shielded Metal Arc Welding  | 1,2,3,4 A,B,C          |
| 16          | Gas Tungsten Arc Welding, Flux Cored Arc Welding, Shielded Metal Arc Welding , Gas Metal Arc Welding | Gas Tungsten Arc Welding, Flux Cored Arc Welding, Gas Metal Arc Welding, Shielded Metal Arc Welding Preparation for Industrial Qualifications  | Students will be in lab practicing Gas Tungsten Arc Welding, Flux Cored Arc Welding, Gas Metal Arc Welding and Shielded Metal Arc Welding.  | 1,2,3,4 A,B,C          |
| 21          | Gas Tungsten Arc Welding, FCAW, Shielded Metal Arc Welding, Gas Metal Arc Welding                    | Gas Tungsten Arc Welding, Flux Cored Arc Welding, Gas Metal Arc Welding, Shielded Metal Arc Welding Preparation for Industrial Qualifications  | Students will be in lab practicing Gas Tungsten Arc Welding, Flux Cored Arc Welding, Gas Metal Arc Welding and Shielded Metal Arc Welding.  | 1,2,3,4 A,B,C          |
| 23          | Gas Tungsten Arc Welding, Flux Cored Arc Welding , Shielded Metal Arc Welding, Gas Metal Arc Welding | Gas Tungsten Arc Welding, Flux Cored Arc Welding , Gas Metal Arc Welding, Shielded Metal Arc Welding Preparation for Industrial Qualifications | Students will be in lab practicing Gas Tungsten Arc Welding, Flux Cored Arc Welding, Gas Metal Arc Welding, and Shielded Metal Arc Welding. | 1,2,3,4 A,B,C          |
| 28          | Gas Tungsten Arc Welding Flux Cored Arc Welding,, Shielded Metal Arc Welding, Gas Metal Arc Welding  | Gas Tungsten Arc Welding, Flux Cored Arc Welding, Gas Metal Arc Welding, Shielded Metal Arc Welding Preparation for Industrial Qualifications  | Students will be in lab practicing Gas Tungsten Arc Welding, Flux Cored Arc Welding, Gas Metal Arc Welding, and Shielded Metal Arc Welding. | 1,2,3,4 A,B,C          |

#### **COMPETENCY AREAS**

1. Test Methods and Procedures
2. National instructional Codes and Standards



3. Fillet and Groove Weld Specifications
4. Preparations for Qualifications and Job Entry

**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.