



**Preparation for Industrial Qualification /  
WELD 1120  
COURSE SYLLABUS  
Fall Semester 2015(201612)**

Semester: Fall 2015(201612)  
Course Title: Preparation for Industrial Qualification  
Course Number: WELD 1120  
Credit Hours/ Minutes: 3 / 4500  
Class Location: Room # 6106  
Class Meets: M/W 4:30 – 7:00 pm  
CRN: 20121

Instructor: Mr. Chris Cumbee  
Office Hours: Monday through Thursday 7 –8a.m.  
Office Location: Room 6106  
Email Address: ccumbee@southeasterntech.edu  
Phone: 478-289-2325  
Fax Number: 478-289-2328

**In order to receive your diploma, you must pass this course by receiving welder certifications in the following processes: SMAW (3-G, 4-G), GMAW (3-G), and FCAW (3-G) and by completing all necessary welding assignments.**

**REQUIRED TEXT:** None

**REQUIRED SUPPLIES:** Spiral notebook, pen, highlighter, welding helmet, clear safety glasses, welding gloves, ear plugs, chipping hammer, half round file with tang, wire brush, wire cutters, Shade 5 cutting glasses, striker, Vice grips, combination square, torpedo level, ball peen hammer, 12" Crescent Wrench, 12' tape measure and a 4 ½" angle grinder. **All students must have these items by the 2<sup>nd</sup> week of class; no exceptions.**

**PRE-REQUISITES:** All Required:

1. WELD 1040 Flat Shielded Metal Arc Welding
2. WELD 1070 Overhead Shielded Metal Arc Welding
3. WELD 1090 Gas Metal Arc Welding
4. WELD 1110 Gas Tungsten Arc Welding

**CO-REQUISITES:** None

**COURSE DESCRIPTION:** 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.

**COURSE OUTLINE:** 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.
4. The ability to utilize basic computer skills.

**All students pursuing a degree, a diploma, or a Technical Certificate of Credit with a General Education component will be required to pass the General Education Competency Exams prior to graduation.**

**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.

**STC ATTENDANCE POLICY:** 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.**

**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.

**SPECIAL NEEDS:** Students with documented special needs may be provided with an individualized Instructional Plan with specifications for scheduled instructional time. It is the student's responsibility to inform the Special Needs Specialist as students and instructors are required to have documented evidence prior to receiving or allowing special accommodations. See the STC Catalog and Student Handbook, Student Affairs section for further information regarding special needs.

**SPECIAL NEEDS ADDENDUM:** *Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact Jan Brantley, Room 2105 Swainsboro Campus, 478-289-2274, or Helen Thomas, Room 108 Vidalia Campus, 912-538-3126, to coordinate reasonable accommodations.*

**MAKEUP GUIDELINES (Tests, quizzes, homework, projects, etc...):** All welding assignments must be completed by the last evening of class.

**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:

##### **--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.

##### **--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.

##### **--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 second 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:** Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, disabled veteran, veteran of Vietnam Era or citizenship status, (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

**GRIEVANCE PROCEDURES:** Grievance procedures can be found in the Catalog and Handbook located on STC's website.

**ACCESS TO TECHNOLOGY:** For information regarding Angel, the Information Delivery System (IDS), Student Owl Mail, and BannerWeb, please see the IT Department link on STC's website at <http://www.southeasterntech.edu>.

#### **GRADING POLICY**

Welding Assignments 100%

#### **GRADING SCALE**

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

#### **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.*

**WELD 1120—Preparation for Industrial Qualification  
Fall Semester 2015 Lesson Schedule**

Date	Chapter / Lesson	Content	Assignments Tests	*Competency Area
Aug. 17	SMAW	First day of class/Class Introduction—Syllabi, Outline, Rules, Regulations Coverage, Library Resources and tour SMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing SMAW welding techniques.	1,2,3,4 A,B,C,D
19	SMAW	SMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing SMAW welding techniques.	1,2,3,4 A,B,C,D
24	SMAW	SMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing SMAW welding techniques.	1,2,3,4 A,B,C,D
26	SMAW	SMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing SMAW welding techniques.	1,2,3,4 A,B,C,D
31	SMAW	SMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing SMAW welding techniques.	1,2,3,4 A,B,C,D
Sep. 2	SMAW	SMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing SMAW welding techniques.	1,2,3,4 A,B,C,D
7	GMAW	GMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing GMAW welding techniques.	1,2,3,4 A,B,D,C
9	GMAW	GMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing GMAW welding techniques.	1,2,3,4 A,B,D,C
14	GMAW	GMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing GMAW welding techniques.	1,2,3,4 A,B,D,C
16	GMAW	GMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing GMAW welding techniques.	1,2,3,4 A,B,D,C
21	GMAW	GMAW Fillet Welds (Padded plate, multi-pass fillet welds and weld all around.)	Students in lab practicing GMAW welding techniques.	1,2,3,4 A,B,D,C
23	FCAW	FCAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing FCAW.	1,2,3,4 A,B,C,D
28	FCAW	FCAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing FCAW.	1,2,3,4 A,B,D,C
30	FCAW	FCAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing FCAW.	1,2,3,4 A,B,D,C
Oct. 5	FCAW	FCAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing FCAW.	1,2,3,4 A,B,D,C
7	FCAW	FCAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing FCAW.	1,2,3,4 A,B,D,C
12	GTAW	GTAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing GTAW.	1,2,3,4 A,B,D,C
14	GTAW	GTAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing GTAW.	1,2,3,4 A,B,D,C
19	GTAW	GTAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing GTAW.	1,2,3,4 A,B,D,C

21	GTAW	GTAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing GTAW.	1,2,3,4 A,B,D,C
26	GTAW	GTAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing GTAW.	1,2,3,4 A,B,D,C
28	GTAW	GTAW Fillet Welds (Padded plate, multi-pass fillet welds.)	Students will be in lab practicing GTAW.	1,2,3,4 A,B,D,C
Nov. 2	Weld All Around GMAW	Students practicing Weld All Around GMAW	Students practicing Weld All Around GMAW	1,2,3,4 A,B,D,C
4	Weld All Around GMAW	Students practicing Weld All Around GMAW	Students practicing Weld All Around GMAW	1,2,3,4 A,B,D,C
9	Weld All Around SMAW	Students practicing Weld All Around SMAW	Students practicing Weld All Around SMAW	1,2,3,4 A,B,D,C
11	GTAW, FCAW, SMAW, GMAW	GTAW, FCAW, GMAW, SMAW Preparation for Industrial Qualifications	Students will be in lab practicing GTAW, FCAW, GMAW, and SMAW.	1,2,3,4 A,B,C,D
16	GTAW, FCAW, SMAW, GMAW	GTAW, FCAW, GMAW, SMAW Preparation for Industrial Qualifications	Students will be in lab practicing GTAW, FCAW, GMAW, and SMAW.	1,2,3,4 A,B,C,D
18	GTAW, FCAW, SMAW, GMAW	GTAW, FCAW, GMAW, SMAW Preparation for Industrial Qualifications	Students will be in lab practicing GTAW, FCAW, GMAW, and SMAW.	1,2,3,4 A,B,C,D
23	GTAW, FCAW, SMAW, GMAW	GTAW, FCAW, GMAW, SMAW Preparation for Industrial Qualifications	Students will be in lab practicing GTAW, FCAW, GMAW, and SMAW.	1,2,3,4 A,B,C,D
25	Holiday No Class	Holiday No Class	Holiday No Class	Holiday No Class
30	GTAW, FCAW, SMAW, GMAW	GTAW, FCAW, GMAW, SMAW Preparation for Industrial Qualifications	Students will be in lab practicing GTAW, FCAW, GMAW, and SMAW.	1,2,3,4 A,B,C,D
Dec. 2	GTAW, FCAW, SMAW, GMAW	GTAW, FCAW, GMAW, SMAW Preparation for Industrial Qualifications	Students will be in lab practicing GTAW, FCAW, GMAW, and SMAW.	1,2,3,4 A,B,C,D

**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 Education 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.
- d. The ability to utilize basic computer skills.