



Preparation for Industrial Qualification / WELD 1120
COURSE SYLLABUS
Spring Semester 2016

Semester: Spring 2016
Course Title: Preparation for Industrial Qualification
Course Number: WELD 1120
Credit Hours/ Minutes: 3 / 4500
Class Location: Room # 416
Class Meets: Tues., Thurs. 9:30-11:45 a.m.
CRN: 40292

Instructor: Mr. Michael Crumpler
Office Hours: Tues., Thurs. 9-12 a.m.
Office Location: Room 417 Main Building
Email Address: mcrumpler@southeasterntech.edu
Phone: 912-538-3257
Fax Number: 912-538-3156
Tutoring Hours: Tues., Thurs. 1-2 p.m.

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: 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.

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.

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 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. **For each unexcused absence, one grade point will be deducted from your overall GPA.**

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 advise me and make appropriate arrangements with the Special Needs Office. Swainsboro Campus: Jan Brantley (478) 289-2274 - Vidalia Campus: Helen Thomas Room 108 (912) 538-3126.

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 Jan Brantley, Room 1208 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...): **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:

--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: 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 at www.southeasterntech.edu.

SCALE

A: 90-100

B: 80-89

C: 70-79

D: 60-69

F: 0-59

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
Spring Semester 2016 Lesson Schedule**

Date	Chapter / Lesson	Content	Assignments Tests	*Competency Area
Jan 12	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
14	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
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
21	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
28	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
Feb 2	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
4	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
11	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	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
18	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
23	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
25	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
Mar 1	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
3	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
8	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

10	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
15	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
17	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
22	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
24	Weld All Around GMAW	Students practicing Weld All Around GMAW	Students practicing Weld All Around GMAW	1,2,3,4 A,B,D,C
29	SPRING BREAK	SPRING BREAK	SPRING BREAK	SPRING BREAK
31	SPRING BREAK	SPRING BREAK	SPRING BREAK	SPRING BREAK
Apr 5	Weld All Around SMAW	Students practicing Weld All Around SMAW	Students practicing Weld All Around SMAW	1,2,3,4 A,B,D,C
7	Weld All Around SMAW	Students practicing Weld All Around SMAW	Students practicing Weld All Around SMAW	1,2,3,4 A,B,D,C
12	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
14	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
19	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
21	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
26	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
28	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
May 3	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.