WELD 1120 Preparation for Industrial Qualification

COURSE SYLLABUS

Spring Semester 2018

COURSE INFORMATION

Credit Hours/Minutes: 4/4500
Class Location: Room 416
Class Meets: Tuesday, Thursday, 9:30 am - 12:00 pm
Course Reference Number (CRN): 40185

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Mr. Michael Crumpler
Office Location: Room 417
Office Hours: Tuesday, Thursday, 1:00 – 2:30 p.m.
Email Address: Michael Crumpler mcrumpler@southeasterntech.edu
Phone: 912-538-3257
Fax Number: 912-538-3156
Tutoring Hours: Tuesday, Thursday, 1:00 – 2:30 p.m.

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).

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), Gas Metal Arc Welding (3-G), and Flux Cored Arc Welding (3-G) and by completing all necessary 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)

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

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 Student 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.

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 (hthomas@southeasterntech.edu), 912-538-3126, 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 advise me and make appropriate arrangements with Helen Thomas (hthomas@southeasterntech.edu), 912-538-3126.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (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 when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

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 accessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

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

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 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 and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, 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 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).

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

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	**Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer**
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1st Street, Vidalia Office 108 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1st Street, Vidalia Office 138B Phone: 912-538-3147 Email: Blythe Wilcox bwilcox@southeasterntech.edu

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 Southeastern Technical College (STC) Website (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 2018 Lesson Plan

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

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
Jan 9	Shielded Metal Arc Welding	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 Shielded Metal Arc Welding techniques.	1,2,3,4 A,B,C,D
11	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,D
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,D
18	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,D
23	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,D
25	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,D,C
30	Gas Metal Arc Welding	Gas Metal Arc Welding Fillet Welds (Padded plate, multi-pass fillet welds and	Students in lab practicing Gas Metal Arc Welding techniques.	1,2,3,4 A,B,D,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
		weld all around.)		
Feb 1	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,D,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 A,B,D,C
8	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,D,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,D
15	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,D,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,D,C
22	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,D,C
27	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,D,C
Mar 1	Gas Tungsten Arc Welding	Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi	Students will be in lab practicing Gas Tungsten Arc Welding	1,2,3,4 A,B,D,C
8	Gas Tungsten Arc Welding	Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi	Students will be in lab practicing Gas Tungsten Arc Welding	1,2,3,4 A,B,D,C
13	Gas Tungsten Arc Welding	Gas Tungsten Arc Welding Fillet Welds (Padded plate, multi-	Students will be in lab practicing Gas Tungsten Arc Welding.	1,2,3,4 A,B,D,C

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
		pass fillet welds.)		
15	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,D,C
20	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,D,C
22	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,D,C
27	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,D,C
29	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,D,C
Apr 3	NO CLASS	SPRING BREAK	SPRING BREAK	NO CLASS
5	NO CLASS	SPRING BREAK	SPRING BREAK	NO CLASS
10	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,D,C
12	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,D

Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
17	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,D
19	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,D
24	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,D
26	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,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 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.