

**CCTC Course: WLD 106 (Gas and Arc Welding)****Section I** (For the student)

**Please read this form completely, including Section III (Policies and Disclosure Information). Please note that a grade of 70% or higher is required for successful completion of the proficiency test.**

Please complete this section of the form and give it to your teacher.

Your Name (PLEASE PRINT): \_\_\_\_\_ SSN: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Primary Phone Number: \_\_\_\_\_

High School: \_\_\_\_\_ Career Center: \_\_\_\_\_

Date of (or anticipated) Graduation from High School: \_\_\_\_\_

**Section II** (For the teacher)

I verify that this student has mastered the major competencies listed below, and therefore, I recommend this student take the WLD 106 proficiency test. **(Please initial each competency)**

- \_\_\_\_\_ 1. Set and operate gas and arc welding equipment (oxyfuel- SMAW-GMAW) according to AWS standards. Demonstrate the use of personal protective equipment and equipment safety. Select electrical current. Identify electrodes. Name joint designs, make fillet welds, and set up V-grooves.
- \_\_\_\_\_ 2. Identify types of welding processes: oxyfuel, SMAW, GMAW, GTAW.
- \_\_\_\_\_ 3. Identify and demonstrate oxyfuel safety procedures in the cutting process. Cut straight lines, circles, and rectangles.
- \_\_\_\_\_ 4. Identify AWS Electrode Classification, including Electrodes 6010, 6013, and 7018. Identify and classify electrodes as fast fill, fast freeze, and fill freeze.
- \_\_\_\_\_ 5. Identify basic types of welds, including fillet and groove welds.
- \_\_\_\_\_ 6. Identify proper current selection and setting. Differentiate between AC and DC current. Differentiate between striking the arc versus tapping and scratching.
- \_\_\_\_\_ 7. Identify and explain joint design. Identify all 5 basic joints and groove designs.
- \_\_\_\_\_ 8. Make beads and fillet welds using oxyfuel, SMAW, and GMAW welding processes; make surface plates. Make T-joints and lap joints.
- \_\_\_\_\_ 9. Make fillet welds in the 2F, 3F and 4F positions.
- \_\_\_\_\_ 10. Make stringers in F2, F3, and F4 positions,
- \_\_\_\_\_ 11. Prepare base metal for V-groove welds. Use oxyfuel cutting and grinding processes.
- \_\_\_\_\_ 12. Set up V-groove weld specimen with backing plate in F2 position.

Teacher (or high school official) Name (PLEASE PRINT): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name of high school/career center course(s) in which this student gained the required competencies for possible exemption credit: \_\_\_\_\_

Date of course completion, or expected completion: \_\_\_\_\_

Comments (if applicable): \_\_\_\_\_

Please contact Axel Reis, Welding Department Chair, to schedule the WLD 106 proficiency test and for questions regarding articulation for WLD 106. Phone: (803) 778-7863; Email: [reisah@cctech.edu](mailto:reisah@cctech.edu)

### **Section III**

#### **Secondary School Articulation Exemption Credit Procedures & Disclosure Information**

1. Students must contact their guidance counselor or teacher at the high school or career center or the Registrar at Central Carolina Technical College to determine whether specific secondary course work is eligible for articulation and to obtain information on requirements and procedures for requesting exemption credit.
2. Students requesting exemption credit must complete *Section I* of the Secondary School Articulation Form for each course in which s/he is interested in receiving exemption credit.
3. The high school or career center teacher will determine if the student has mastered the major course competencies and is eligible to take the proficiency test. If so, the teacher should complete *Section 2* of the Secondary School Articulation Form for each course the student is requesting exemption credit.
4. The high school teacher/official must contact the CCTC program manager (at the email/phone number listed on the Secondary School Articulation Form) to schedule the proficiency test and should submit completed forms to the CCTC program manager/instructor administering the test.
5. The CCTC department chair/program manager/instructor must administer the proficiency test and complete a Proficiency Test Form for each student taking the test, indicating whether the student passed or failed the test.
6. The CCTC department chair/program manager/instructor must submit the completed Secondary School Articulation Forms, Proficiency Test Forms, and graded proficiency tests to the CCTC Registrar.
7. The CCTC Registrar will provide students with results of the proficiency test and instructions for obtaining exemption credit.
8. Students must meet all admissions requirements at CCTC and should inform the admissions counselor of pending exemption credit when being admitted to the college.
9. After the student is admitted to the College, Student Records will post the exemption credit as a grade of "E" on the student's official CCTC transcript. ("E" grades do not count in a student's grade point average.)

10. Exemption credit may apply to a required course in the articulated program or an elective course depending on whether or not the course is listed as required for a specific curriculum in the College catalog. If a student enters a program at CCTC for which the course is not required, the student may use the course as elective credit if permission is granted by the program department chair/program manager.
11. Students will have no more than two years following high school graduation to complete the secondary articulation procedures and request exemption credit.
12. A high school student who takes a proficiency test will have his/her Secondary School Articulation Form and Proficiency Test Form (indicating if the student passed) kept on file in the Student Records Office for two years following high school graduation. The graded proficiency test will remain on file in the appropriate department office or Student Records Office for two years following the test date.
13. Exemption credit earned at CCTC does not imply or guarantee that such credit will be honored by other institutions of higher education.
14. All proficiency exams will be developed, administered, and scored by Central Carolina Technical College faculty and/or staff.