

**Tri-County Technical College**  
**Welding Program/Industrial and Engineering Technology Division**  
**Technical Advanced Placement (TAP)**  
**Competency Verification and Teacher Recommendation Form**  
**WLD 108 (Gas Metal Arc Welding I)**

**SECTION I** (To be completed by the *student*)

Please complete this section of the form and give it to your Welding or Agricultural Mechanics teacher.

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

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

Phone: \_\_\_\_\_

High School: \_\_\_\_\_ Grade: \_\_\_\_\_

**SECTION II** (To be completed by the *teacher*)

I verify that this student has mastered all of the major competencies for WLD 108 (Gas Metal Arc Welding I), which are listed on the back of this form and described completely in the approved syllabus. I understand that in order to progress in the validation process for Technical Advanced Placement credit, a minimum of 75 percent of the competencies must be verified. Having met this requirement, I recommend this student be permitted to continue the validation process by completing the TAP exam, which I understand will be arranged through the Welding Program at Tri-County Technical College.

Teacher Name (*PLEASE PRINT*): \_\_\_\_\_

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

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

Name of high school course(s) in which this student gained the required competencies for possible TAP advanced standing: \_\_\_\_\_

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

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

**Please make a copy of this form for your records and mail the original to Ms. Tonia McClain, Industrial and Engineering Technology Division Secretary, Tri-County Technical College, PO Box 587, Pendleton, SC 29670. (Questions regarding TAP procedures for WLD 108 should be directed to Mr. Paul Phelps, Welding Program Coordinator, at 646-1405.)**

Ab: 3/2006

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**COMPETENCIES (please initial each one)**

- \_\_\_\_1. Describe the types of protection, ventilation, fire prevention, and electrical shock associated with arc welding.
- \_\_\_\_2. Identify welding machines according to their type.
- \_\_\_\_3. Explain the different types of welding current and CCPCV.
- \_\_\_\_4. Perform safety checks.
- \_\_\_\_5. Demonstrate how to safely set-up a (CV) welding station.
- \_\_\_\_6. Identify the types of electrodes and their number system.
- \_\_\_\_7. Set welding machines to proper amperage and voltage.
- \_\_\_\_8. Perform basic maintenance.
- \_\_\_\_9. Identify base metals by using various tests.
- \_\_\_\_10. Demonstrate the ability to control undercut, overlap, porosity, and slag inclusions when welding.
- \_\_\_\_11. Make a series of multipass fillet welds in all positions.