

**Title: WELDING TECHNOLOGY/WELDER**  
**Code: 48.0508**  
**Career Cluster: Manufacturing**

Certification Required	Certification Method	Occupational Competency Area	Occupational Competency Evaluation
Vocational-Intern/ Instructional 2600	Vocational-Instructional (non-degree program)	Welding 2079	Welding

**Description:** An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes and welding rods; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.

**Notes:**