

INTRODUCTION TO WELDING

Pierce County Careers Connection Dual Credit Articulation Agreement

Upon completion of high school courses equivalent to the following competencies:

- Demonstrate the proper use of tools and equipment common to the welding industry:
 - Chipping hammers
 - Wire brushes
 - Picks (weld cleaning)
 - Tape measure
 - Squares
 - Levels
 - Weld gauges
 - Protractors
 - Clamps
 - Portable grinders, sanders, and power brushes
 - Pedestal grinders
 - Belt/disc sanders
 - Abrasive saws
 - Band saws
 - Hydraulic presses
 - Squaring shears
 - Iron workers
- Explain limitations, safety considerations, and efficient operating practices for the following equipment categories:
 - Squaring shears
 - Iron workers
 - Grinders and power brushes
 - Abrasives saws
 - Horizontal bandsaws
 - Belt/disc sanders
 - Hydraulic presses
- Identify safety hazards associated with welding/metalworking:
 - Ultraviolet and infrared radiation
 - Fire
 - Explosion
 - Electric shock
 - Noise
 - Projectiles (sparks, metal fragments, etc.)
 - Fumes
 - Machine pinch and crush hazards
 - Heat
- Describe strategies for injury prevention:
 - WISHA Standards
 - OSHA Standards
 - L & I Standards
- Describe the use of personal protective equipment:
 - Safety glasses
 - Ear protection
 - Work boots
 - Gloves
 - Welding hood with appropriate filter for arc processes.
 - Welding goggles or face shield for oxyfuel processes.
 - Appropriate apparel for protection from heat, sparks and radiation.

A student earning a "C" grade or better may earn college credit at one of the following colleges:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Bates Technical College	WELD 103	2
Clover Park Technical College	WLD 106	5
	CIP Code: 48.0508	