

Course Objectives/Course Outline
Spokane Community College

Course Title: HEQ Welding II
Prefix and Course Number: WELD 152

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Function safely and proficiently with a plasma cutting torch
- Cut various thicknesses of steel using a plasma cutting torch
- Weld with GMAW in Flat, Horizontal and Vertical positions
- Weld with FCAW in Flat, Horizontal and Vertical positions
- Function safely with an air carbon arc cutting system

Course Outline:

- 1) Oxy-fuel and Plasma
 - a) Safety
 - b) Set up
 - c) Cutting
- 2) Basic GMAW
 - a) Safety
 - b) Wire I.D.
 - c) Wire classification
- 3) ER70S-6
 - a) T Joints
 - i) Horizontal
 - ii) Vertical
 - b) Lap joints
 - i) Horizontal
 - ii) Vertical
- 4) E71T-1
 - a) T joints
 - i) Horizontal
 - ii) Vertical
- 5) Air arc
 - a) Set up
 - b) Weld removal
 - c) Weld preparation