

## IND 1304 : WELDING III

This course provides advanced training needed for employment in production welding, in fabrication, in a repair shop, or in the electrical power industry. Students will complete studies in the areas of welding safety, career opportunities, metallurgy, welding equipment and processes, welding electrical theory, and welding drawing/welding symbol interpretation. Students gain hands-on experience in advanced Oxyfuel welding and cutting, Plasma Arc cutting, Shielded Metal Arc Welding (SMAW) and Gas Tungsten Arc Welding (GTAW) in the American Welding Society 1G-Rotated, 2G, 5G, and 6G positions on 2-inch carbon steel pipe. Welding skills will be developed and assessed in SMAW and GTAW Open-Root, V-Groove welds. This course requires students to wear several items of personal protection equipment. Shop procedures are explained, constantly emphasized, and strictly enforced.

**Credits** 4

**Lecture Hours** 1

**Lab Hours** 7

**Corequisites**

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