

# Welding II

**Local Course #:** 88831

**State Course ID:** 13032400

## **Course Description:**

Welding II is an advanced course that builds on the skills learned in Welding I. Students will refine techniques in SMAW, FCAW, and GTAW, interpret blueprints, perform welds in all positions, and complete real-world fabrication projects. Emphasis is placed on safety, inspection, and industry standards, preparing students for certification, employment, or further training in the welding field.

## **Link to TEKS:**

<https://tea.texas.gov/about-tea/laws-and-rules/sboe-rules-tac/sboe-tac-currently-in-effect/ch130m.pdf>

## **First 9 Weeks Major Topics:**

1. Professionalism in Welding 2. Math for Welding & Blueprint Reading 3. Welding Joint Design & Advanced Planning 4. Lab Launch: SMAW Refresh & Setup

## **Second 9 Weeks Major Topics:**

1. SMAW Proficiency (All Positions) 2. Flux-Cored Arc Welding (FCAW) 3. Collaborative Fabrication Project 4. Midyear Evaluation & Portfolio Checkpoint

## **Third 9 Weeks Major Topics:**

1. Introduction to Gas Tungsten Arc Welding (GTAW) 2. GTAW on Diverse Metals 3. Advanced Independent Fabrication Project 4. Technical Troubleshooting & Equipment Mastery

## **Fourth 9 Weeks Major Topics:**

1. Weld Inspection & Code Application 2. Cutting and Metal Prep Processes 3. Capstone Presentation and Skills Demonstration 4. Course Closure and Postsecondary Prep