

## **Term II Structural and Pipe Welding with NCCER modules and Lab Hours**

### **Welding and Construction Safety (15 class hours)**

Covers safety equipment, protective clothing, and procedures applicable to the cutting and welding of metals.

### **29110-09 Joint Fit-Up and Alignment (10 class hours)**

Identifies and explains job code specifications. Describes the use of fit-up gauges and measuring devices to check fit-up and alignment and the use of plate and pipe fit-up and alignment tools to properly prepare joists. Explains how to check for joint misalignment and poor fit.

### **29301-10 SMAW – Open-Root Pipe Welds (10 class hours / 185 lab hours)**

Explains open-root pipe welds and how to set up welding equipment for making open-root pipe welds. Provides procedures for making 1G, 2G, 5G, and 6G open-root pipe welds

### **29106-09 Weld Quality (10 class hours)**

Identifies the codes that govern welding. Identifies and explains weld imperfections and causes. Describes non-destructive examination practices, welder qualification tests, and the importance of quality workmanship.

### **OSHA Construction Safety and Health Certification Class (10 class hours)**

### **HANDS ON WELDING TEST: 6” SCHEDULE 40 Carbon Steel 6G SMAW Pipe Weld**

**(10 hours practice and testing) Total Class Hours- 55 Total Lab Hours – 195 Total Clock Hours for Term II – 250**