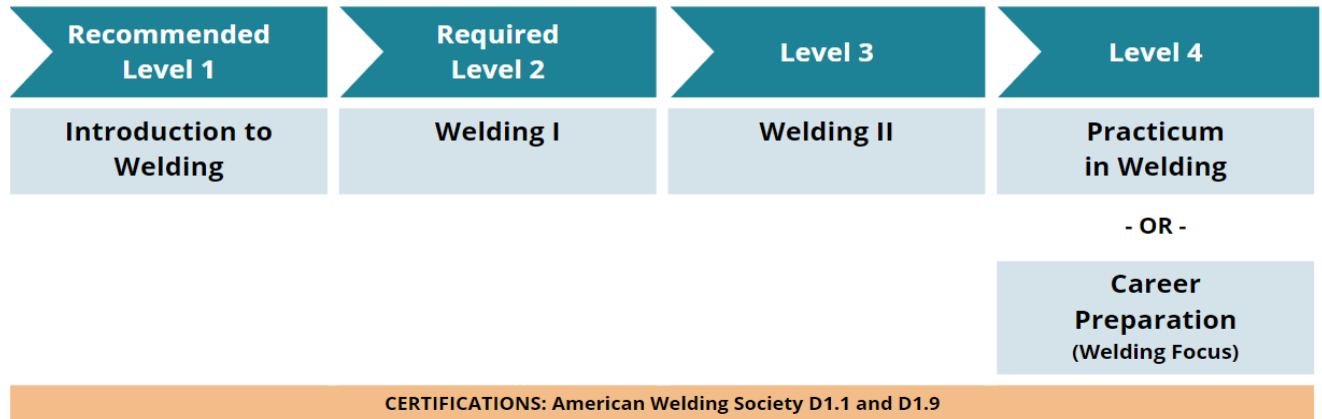


# Welding Pathway



## BUSINESS & INDUSTRY ENDORSEMENT



### INTRODUCTION TO WELDING

**KISD #:** 966718      **PEIMS:** 13032250  
**Grades:** 9-10      **1.0 Credit**  
**Prerequisite:** None

Students will gain knowledge of welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards.

**Required Fee/Materials:** Yes  
**Note:** Offered at Klein Cain and Klein Oak High Schools

### WELDING I

**KISD #:** 966818      **PEIMS:** 13032300  
**Grades:** 10-12      **2.0 Credits**  
**Prerequisite:** None

This sequential two-year program is designed to prepare students to be skilled workers and to understand, perform and supervise or inspect a wide variety of welding processes, including gas welding, brazing, flame cutting, plasma cutting, shielded metal arc welding and resistance welding. Introduction to gas metal arc welding, gas tungsten arc welding and flux core welding will also be explored. Students will develop a basic understanding of design for welding fabrication, an understanding of the cost and economics of various types welding. Students are introduced to the methods of nondestructive and destructive inspection of welds and welded products.

**Required Fee/Materials:** Yes  
**Transportation Needed:** Yes  
**Note:** Offered at Klein Cain and Klein Oak High Schools

### WELDING II

**KISD #:** 967018      **PEIMS:** 13032400  
**Grades:** 11-12      **2.0 Credits**  
**Prerequisite:** Welding I

Welding II is the second part of a two-year program designed to prepare students to be skilled workers and to understand, perform and supervise or inspect a wide variety of welding processes, including gas welding, flame cutting, plasma cutting, arc gouging, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding and flux core welding. Students will understand non-destructive and destructive inspection of welds and welded products and auxiliary equipment used in the process, such as jigs, fixtures, and tools and equipment related to welding. Students will develop math skills and problem solving skills used in the welding field.

**Required Fee/Materials:** Yes  
**Transportation Needed:** Yes  
**Industry Certification:** AWS D1.1 Welding  
**Note:** Offered at Klein Cain and Klein Oak High Schools

### PRACTICUM IN WELDING

**KISD #:** 966918      **PEIMS:** 13033000  
**Grades:** 12      **2.0 Credits**  
**Prerequisite:** Welding II

Students in this course will participate in a continuation of Welding II in a lab based environment. Advanced welding processes, design and weld testing will be the focus of this course.

**Required Fee/Materials:** Yes  
**Advanced Grade Points:** Yes  
**Transportation Needed:** Yes  
**Note:** Offered at Klein Cain and Klein Oak High Schools

**CAREER PREPARATION I (Welding Focus)****KISD #:** 967718**PEIMS:** 12701300**Grades:** 11-12**2.0 Credits****EXTENDED PRACTICUM IN CAREER PREP I****KISD #:** 967618**PEIMS:** 12701305**Grades:** 11-12**3.0 Credit****Prerequisite:****At least 16 years of age and valid work documentation (such as a Social Security card) and Approval Process**

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A work-based learning program that combines occupationally related classroom instruction and work-based experiences. Students are expected to be enrolled in the career preparation program the entire school year and must have reliable transportation to/from the training site each day. A student not employed at an approved training station prior to the ninth day of school shall have a schedule change removing him/her from the Career Preparation program. The student must be in a paid position and may not be employed by a relative. The student will receive an employer evaluation each grading period as one component of the nine week average.

**Approval Process:** Yes**Transportation Needed:** Yes