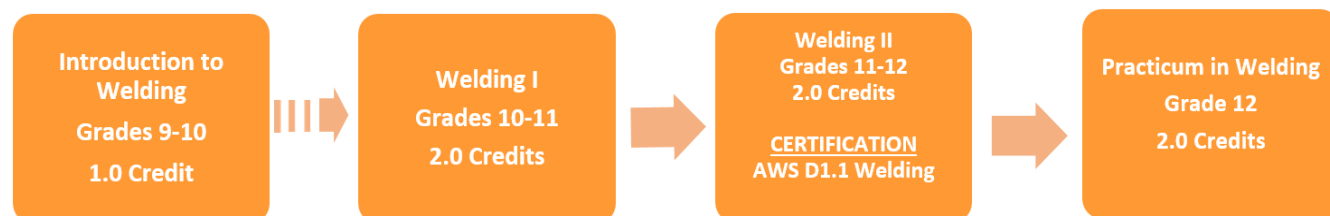


Business & Industry Pathway – Welding



Welding courses are only offered at Klein Oak High School & Klein Cain High School.

Courses that are inclusive for any Pathway or Endorsement are BIM I, Professional Communications, Touch System Data Entry and Career Preparation

Recommended Sequence

Required Sequence

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

The Practicum in Welding course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will be involved in the problem solving process, safety, and familiarization of welding techniques.

Required Fee/Materials: Yes

Transportation Needed: Yes

Note: Offered at Klein Cain and Klein Oak High Schools