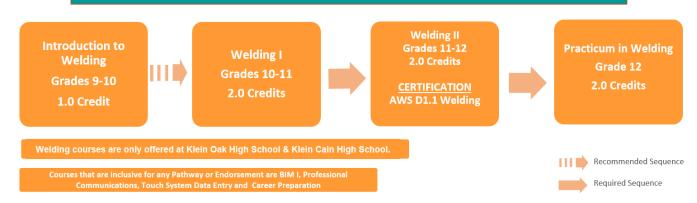
# **Business & Industry Pathway – Welding**



## 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** 

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