

Welding

Welding at Kennedy High School is a 12 week introduction to the common practices used in cutting and welding steel and aluminum. The cutting practices include oxy-gas cutting and plasma cutting. The welding practices include; shielded metal arc welding, metal inert gas welding, oxy-gas welding, and tungsten inert gas welding.

The welding completed will be evaluated on appearance instead of strength and all samples will be welded on the flat position. The purpose of the course is to offer the beginning experience and to help the student determine interest.

Standard 1: Understand the “Soft Skills” that industry expects.

Benchmarks

1. Demonstrate reliability by attending class on a regular basis
2. Demonstrate work ethic through the planning and completion of assignments and labs.
3. Demonstrate teamwork by working with a partner to successfully complete projects

Standard 2: Understand and apply safe practices in a metalworking and specifically welding shop.

Benchmarks

1. Attend instruction and take notes regarding safe practices in a welding shop.
2. Successfully complete written tests for all processes in the shops
3. Demonstrate on a daily basis the application of safe practices while working in the shops

Standard 3: Demonstrate the ability to build simple projects and proper welding from simple drawings.

Benchmarks

1. Attend instruction, take notes and pass tests related to CAD drawings of welded projects.
2. Work from drawings to correctly complete the required projects in the course.

Standard 4: Demonstrate the knowledge of machines and process in several welding and cutting processes.

Benchmarks

1. Complete projects in both gas and plasma cutting.
2. Throughout the course use both gas and plasma cutting to create the parts necessary to complete the welding projects.
3. Complete projects in shielded metal arc and metal inert gas welding to a minimum of 80% grade.
4. Complete a gas welding project to a 50% grade
5. Tungsten inert gas welding attempted if extremely interested and the other three forms are all 80%