Manufacturing 2A & B

Course Length: Two Semesters

Pre-Requisite: Successful completion of Manufacturing 1A and Manufacturing 1B or an equivalent if transferring from another district

Grade Level: 11-12

Within this course the students will build on the basic skills learned in the pre-requisite course. The student will be required to design and produce projects from general information. The design process can be done either individually or in a group depending upon the application.

Sheet metal – The students will work on a more complex designed project requiring multiple parts.

Welding – The students will learn to use the plasma cutter and the plasma cam equipment to produce a variety of parts.

They will be developing more advanced techniques for Arc and MIG welding. The students will be taught how to TIG weld.

The students will also be using the welding skills to repair school equipment (stools and desks) that need minor repairs.

Forging – The students will be taught the basics of forging. They will learn why this process is used extensively in the metal production industry.

The students will also be doing peer teaching with the Manufacturing 1A &1B students since the classes meet at the same time.

Independent Projects are encouraged to expand the knowledge base and use skills previously learned to accomplish new tasks.