

## MANUFACTURING TECHNOLOGY (Continued)



### INTRO TO WELDING TECHNOLOGY (Grade 10) (1 Credit)

This class is a condensed version of the two hour courses offered. In this class, students will be introduced to welding in the flat and horizontal positions using OFW, OFB, GMAW, SMAW, as well as using oxygen acetylene cutting, plasma cutting and CNC plasma cutting. This class will focus on the basics of print reading, measuring and fabrication as well as basic math skills.

### WELDING TECHNOLOGY I (2 Credits)

This Welding course is designed to develop entry level job skills for students that may be interested in a career in the welding field. The student will study basic shielded metal arc welding, gas metal arc welding (Mig), gas tungsten arc welding (Tig), oxygen acetylene welding, and flux cored arc welding, and demonstrate the processes according to the American Welding Society Standards. This course is based on the fundamental welding concepts as they apply to welding carbon steel. **Prerequisite:** None

### WELDING TECHNOLOGY II (2 Credits)

Welding Technology II broadens the students' knowledge and skills through experience and independent study of welding procedures. In depth blueprint reading and welding symbol understanding through the completion projects will also be covered. CNC Thermal Cutting will also be introduced. This course is based on the fundamental welding concepts as they apply to welding carbon steel, as well as aluminum and stainless steel. It emphasizes the interrelationships of the welding processes, material selection, product design, production techniques, quality control and provides the knowledge necessary to solve day-to-day welding and fabrication problems.

**Prerequisite:** Welding Technology I



**American Welding Society**