

The Welding program trains students for the welding workforce. Students completing this course may be ready to enter the workforce as welders. This program involves the joining and cutting of various metals using equipment of the trade. There are numerous welding processes, depending on the type of equipment and techniques used.

Students learn by doing. By studying the theory and then doing the related practical projects, students can achieve a high skill level. Once students have mastered the skills of a particular process, they will reinforce this learning by designing and building products which might include utility or custom-made trailers, ornamental railings and ironwork, gym equipment, and projects brought in from the community. Award winning class projects have included; sand rail dune buggies, customized golf carts and a V-8 powered trike. Students are required to study related subjects such as safety, math, blueprint reading, and metallurgy to complement their practical work.

Completion of training in this program will improve student's chances of locating employment as an apprentice in the welding field. Students who have completed this program with an accumulated average of 70% or higher, may be eligible for their first level of Apprenticeship training in the Welding Trade.

Additional practical training hours can be acquired through the High School Apprenticeship Program (HSAP) - a high school, evening/weekend/summer work practicum recognized Apprenticeship MB.

***The program will also assist in developing entry level skills for workers in a wide range of employment opportunities such as:***

Construction Welders	Maintenance Welders
Speciality TIG Welders	Production Line Welder
Welding Inspectors	Welding Supplies Salesperson
Related professions such as Drafting, Engineering and Architecture	

**Grade 10** student option is to participate in Introduction to Trades Technology (ITT). Please check out the Introduction to Trades Technology program outline.

**Welding Technology courses include:**

**Section 1** – may start in Grade 11

8387 Introduction to Welding Technology 20S

8414 Metal Design/Fabrication and Oxy-Acetylene Procedures 30S

8474 Basic GMAW (MIG) Procedures 30S

8487 Advanced GMAW (MIG) Procedures 40S

**Section 2**

8486 Basic SMAW (Arc) Procedures 30S

8488 Advanced SMAW (Arc) Procedures 40S

8489 Advanced Metal Design/Fabrication 40S

8503 Applied Specialties & Qualifications 40S



Apprenticeship Manitoba