

G.M.C.S. Metals Fabricating Course Outline

Outcomes: Students will...

1. Demonstrate the skills and knowledge required to prevent accidents.
2. Demonstrate an understanding and application of WHMIS
3. Demonstrate an understanding of workplace standards, communication, and teamwork required to be successful in the metals industry
4. Identify, select, and safely use tools and equipment required in the welding and fabrication industries
5. Demonstrate proficiency in Oxy-acetylene cutting
6. Demonstrate a proficiency in electric arc welding
7. Identify careers available in metal fabrication



Units that we will study:

- Hand and Power Tools
- Joint Design and Welding Symbols
- Welding Procedures
- Weld Quality
- Shielded Metal Arc Welding
- Gas Metal Arc Welding
- Basic Oxy Fuel
- Demonstrate and understanding of applied mathematics, and measurement
- Identify career opportunities in the metals industry.

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Assessment:

- 10% Observations & Conversations - Safe Operations
- 35% Tests, Quizzes and assignments
- 35% Project Work
- 20% Final Exam

You need:

- Safety Glasses
- Work boots
- Appropriate clothing every day (see PPE handout)
- (I will provide the welding coats, helmet, and gloves)