

Basic GMAW (MIG) Procedures 30S

Student Course Outline

Swan Valley Regional Secondary

School Instructor- Mr. Hicks

Course Objective:

Upon Completion, the student should be able to identify the various use and handling of Hand tools and Power tools, processes used in welding and describe the safe operation of Gas Metal Arc Welding (GMAW). The course will include theory as well as shop experience. The course is 30% Theory and 70% Practical.

Course Requirements

P.P.E. – Safety Glasses, C.S.A Approved Steel toe boots and hearing protection must be worn at all times in the shop. **No exceptions.**

Cell Phone Policy

If a cell phone is visible or audible during class, it will be placed in the lockbox at the front of the room until the end of the period. If this issue persists, the student will be required to either store their phone in their locker or submit it at the beginning of each class.

Shop Rules and Policies

Students Not following the safe work practices outlined in the school and division policies could result in removal from the course/program.

Digital Citizenship

Personal Devices may be used discreetly if they do not interfere with Learning. If learning is not occurring the devices will need to be left in lockers or held by instructor until end of class. If device continues to interfere with learning, parents or guardians will be notified and further steps will be discussed.

Outline

- A. Review of safe work practices, W.H.M.I.S, fire safety
- B. Measuring Techniques
- C. Grinding techniques
- D. GMAW Metal machine maintenance
- E. Recondition tools and Techniques
- F. Welding Gases and their uses.
- G. GMAW in Flat and Fillets welds
- H. Welding wires for each process
- I. Metal Forming Equipment
- J. GMAW with CO2
- K. GMAW with C25
- L. GMAW with Mig mixed Gold
- M. GMAW using Short Circuit, Globular, and Spray weld techniques.
- N. Cleaning of work areas.

Attention will be given for attendance and punctuality.

[Grading outline](#)

Course Assessment-Marking Scale

- Assignments are required to be handed in on time
- Students who are not excused from exams, tests and quizzes must consult with teacher immediately to arrange an alternate date to complete missed test/quiz or a zero or incomplete may be given.
- Rubric marking scales will be used in practical and project assessment process.

Classwork	20%
Demonstrations	30%
Tests	30%
Projects	20%
Total	100%

Length and time of coverage per subject category may change without notice due to availability of time and resources