Advanced GMAW(MIG) Procedures 40S

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

1st Time - Warning, Put phone away

2nd Time - Phone goes in lockbox + Phone call home.

3rd Time - Student brings their phone to the office, leave it there for the day. + Phone call home.

Shop Rules and Polices

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

Outline

- A. Review of safe work practices, W.H.M.I.S, fire safety
- B. Measuring Techniques
- C. Grinding techniques
- D. Reading of Blueprints
- F. GMAW Metal machine maintenance
- F. Recondition tools and Techniques
- G. Welding Gases and their uses.
- H. GMAW in Flat and Fillets welds
- I. GMAW on Flat, Vertical and Horizontal fillets
- J. GMAW on Grove Welds in Flat, Horizontal and Vertical coupons
- K. Welding wires for each process
- L. Metal Forming Equipment
- M. GMAW with CO2
- N. GMAW with C25
- O. GMAW with Mig mixed Gold
- P. GMAW using Short Circuit, Globular, and Spray weld techniques.
- Q. GMAW welding on Aluminum.
- R. 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	20%
Tests	40%
Projects	20%
Total	100%

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