CROCUS PLAINS REGIONAL SECONDARY SCHOOL
COURSE OUTLINE AND ASSESSMENT GUIDE

Course Name: WGB 20S Introduction to welding technology

Teacher's Name: Mr. J Irwin

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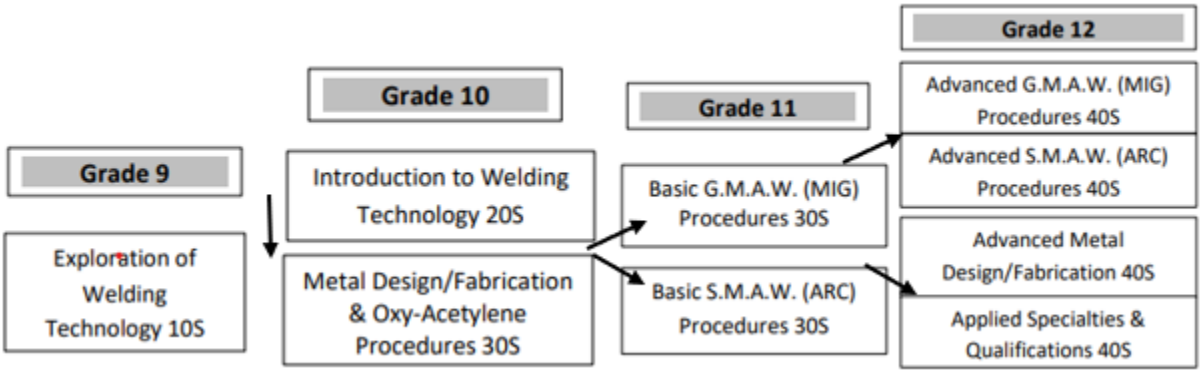
Course Description:

This course is required to advance to the Senior 3 and 4 levels. Students taking this Arc (Level 1) course will be taught the basics about arc welding machines, alternating and direct currents, electrode identification, set up and welding of different joints in the flat and vertical positions. Students will be taught the use of a general purpose electrode on 12 gauge mild steel. Assigned projects will require the use of a variety of other shop power equipment. There will be opportunities for students to design and fabricate their own projects (if approved).



Units of Study

Unit Title	Learning Outcomes	Assessment Plan	Proposed Time (Based on ~ 75 school days)
Written work	Arc Safety Arc equipment Plasma programming and Cutting Basic joints and weld types Weld faults	Formative Assessment Assessment may include: Questions and discussion about topics. Review of Smart Response questions during class time. Summative Assessment Written tests for each unit. 25% of total mark	5 days 2 days 3 days 2 days 2 days

Unit Title	Learning Outcomes	Assessment Plan	Proposed Time (Based on ~ 75 school days)
Daily Practical Work	6013 Pad welds	<u>Formative Assessment</u> Assessment may include: Feedback on each type of weld, what the student may need to try to improve their weld. Allows the student to understand what makes a good weld and asking them to assess their own welding abilities.	4 days
	7024 tee welds with start and stop		3 days
	7024 3 pass tee welds		3 days
	6013 lap		4 days
	6013 weave welds		3 days
	7018 lap weld with start and stop		4 days
	7018 3 pass tee.		3 days
	7018 weave.		3 days
	7018 up-hand weave	<u>Summative Assessment</u> Students will be allowed to submit their best overall welds to be marked. 50% of overall mark.	4 days
	Plasma cut		2 days

Unit Title	Learning Outcomes	Assessment Plan	Proposed Time (Based on ~ 75 school days)
Employability Skills	Communication skills Respectful workplace Adaptability and effort Follows direction and feedback Use of safety in the workplace	<u>Formative Assessment</u> Regular communications about shop expectations, and how to adapt to an employer's expectations. <u>Summative Assessment</u> Grading rubric will be used to assess skills necessary for employment expectations. 5% of total mark.	Evaluated monthly and is graded on day-to-day skills.

Unit Title	Learning Outcomes	Assessment Plan	Proposed Time (Based on ~ 75 school days)
Final shop project	Multi Joint Assembly (A combination of practical welds done throughout the course, assessed at mid-term and course end)	Formative Assessment Provide feedback about appearance and fit up. Summative Assessment Rubric to grade on fit up, weld quality, appearance, and workmanship. 20% of total mark.	10 days

Academic Achievement

Grades will be calculated on summative assessment information only. The final calculation will be a fair reflection of a student's achievement of the learning outcomes.

Term Work ..... ___80__%

Final Assessment ..... ___20__%

- **Provincial Standards Exam**
- **Final Exam**
- **Final Project/Assignment**
- **N/A**

Learning Behaviours

Assessment and reporting of learning behaviors will be according to the Brandon School Division Learning Behaviors Rubric.