



Crocus Plains Regional Secondary School

Course Outline

9031/COA30S

Program: Collision Repair Technology
Course Title: Automotive Metals and Welding

School Year and Semester: 2026-2027 Semester 1 & 2

Teacher: Mr. C. DeCosse and Mr. G. Oliver

Course Description:

In this course, students will learn about metallurgy, focusing on the types of metals used in vehicle construction. Students will develop welding skills while operating and maintaining different types of welding equipment, such as metal inert gas (MIG), oxyacetylene, plasma arc, and resistance spot welding equipment.

General Learning Outcomes:

After completing this unit, you will be able to:

- Describe and apply appropriate health and safety practices to work safely in a modern body/paint shop
- Identify the types of metals used in modern vehicles
- Demonstrate a basic understanding of the different properties of metal
- Perform minor damage repairs to sheet metal
- Explain and demonstrate the effect of bending and heating automotive sheet metal
- Demonstrate vehicle damage analysis and repair estimation
- Properly select and use trade related hand and power tools
- Operate, maintain MIG welding equipment and demonstrate welding procedures
- Operate and maintain oxyacetylene welding and cutting equipment
- Operate and maintain a plasma arc cutting unit and resistance spot welding equipment

Course Evaluation Structure:

- Theory Tests and Assignments: 35%
- Assigned Projects and Practical Tests: 60%
- Employability Skills: 5%

Statement of Standards – Students Completion of Course Evaluation Requirements

In accordance with the Brandon School Division Policy on student assessment, evaluation, and reporting, each course outline will contain clearly stated evaluation requirements.

In the implementation of these requirements, the following standard for the completion of assignments by students apply:

- A zero grade is given to unit assignments that are not submitted by the completion of the related unit's summative evaluation.
- Any extension for a student to the above standard will only be considered by the administration when requested by the teacher.

