



Crocus Plains Regional Secondary School

Course Outline

Program: Automotive Technology

Course Title: AUA40S-Automotive Electrical Fundamentals

Teacher: J. Kasprick

Course Description: A student wanting to develop skills in the automotive industry must have knowledge of the basic principles of automotive electrical systems. The student will understand the principles of electricity and electronics as it relates to automotive systems. The student will be able to diagnose, service and repair automotive electrical circuits and components.

General Learning Outcomes:

Students who successfully complete this course will be able to:

- Apply principles of Ohm's Law to solve electrical calculations.
- Perform: Circuit Voltage Tests
 Circuit Resistance Tests
 Circuit Voltage Drops
- Service battery and connections.
- Diagnose and repair battery starting charging systems.
- Use and interpret electrical diagnostic equipment.
- Complete minor wiring repair.
- Remove and replace defective electrical components.

Course Evaluation Structure:

Theory Assignments & Tests	25%
Practical Work & Projects	55%
Final Evaluation:	20%
Total	100%

