

# Electrical Systems 30S

Credit Value: 1.0

---

## Overview:

The Power Mechanics program at Minnedosa Collegiate consists of 12 credits:

- 1 credit at the Grade 9 level
- 2 credits at the Grade 10 level
- 6 credits at the Grade 11 level
- 2 credits at the Grade 12 level

There are no pre-requisites at the Grade 9 level. Students wishing to enroll in a full credit program at the Grade 11 and Grade 12 levels will require at least 2 credits at the Grade 9 and Grade 10 levels as a pre-requisite. Students completing a full credit Power Mechanics program will be eligible to graduate with a Vocational high school diploma. In Grade 11 and 12 the completion of the academic core courses (ELA, Math, PE) in the first semester of the school year is also a pre-requisite.

Pre-requisite: 2 credits from the Grade 9 & Grade 10

## Course Description:

This section will begin with an in-depth review of basic electrical principles and the operation of electrical test equipment. Students will then apply their knowledge to the testing and repairing of electrical components such as AC and DC generators, as well as starters and storage batteries. Students will learn how to correctly diagnose and repair the various electrical controls and chassis wiring systems commonly used on today's automobiles. An introduction to computerized control systems will also be incorporated in these sections of the program.