

Automotive Electronics 40S

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 levels

Course Description:

This section starts with an in-depth review of electrical principles and electronic test equipment. Students are then introduced to electronic principles that include computers, sensors and actuators as found in a modern technology motor vehicle. Students are also introduced to electronic fuel injection operation, electronic ABS braking systems operation, distributorless ignition and other systems in an automobile, which are controlled by commands from a computer. The students will be introduced to diagnosis and repair procedures of computer-controlled systems using computer self-diagnostics and a hand held scan tool.