

Engine Fundamentals 20S

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: Intro to Power Mechanics 10S (*recommended*)

Course Description:

This course is designed to help students acquire the skills and knowledge that are necessary to diagnose and perform basic repair procedures on internal combustion engines that are found on modern day automobiles, recreational vehicles, and power equipment. Shop activities will focus on the disassembly, repair and reassembly of small and large gasoline engines. Students will also be given opportunities to perform basic service and maintenance procedures on their own vehicles and power equipment. Safe working habits and shop organization procedures will be emphasized, as well as the proper use of hand and power tools and shop equipment. Classroom studies will introduce students to basic engine fundamentals, engine systems, engine classifications and engine performance characteristics.