

POWERSPORTS TECHNOLOGY DIPLOMA - 60 CREDITS

About this program

Students who wish to become skilled PowerSports mechanics must be capable of diagnosing mechanical failures quickly and accurately if they are to be in a position to repair a job at a fair salary return. Most types of two- and four-cycle small engines that are currently used to power lawn mowers, snowblowers, generators, garden tractors, rototillers, snowmobiles, ATVs, personal watercraft and marine engines will be covered. Students who perform satisfactorily may find employment as service technicians, sales personnel and factory representatives, or they may wish to enter business for themselves. This program requires a mechanical aptitude and the ability to read and comprehend technical service manuals, understand and perform a variety of diagnostic procedures, and work well with fellow employees and customers. Many industry training opportunities are available.

Program outcomes

- 1. Demonstrate safety and professionalism and related soft skills.
- 2. Apply the theory of vehicle operating systems.
- 3. Diagnose vehicle operating systems.
- 4. Repair vehicle operating systems.
- 5. Interpret service information.

Curriculum overview

Crds Requirement type

- 54 Required courses
 - 6 Restricted electives in course types
- 60 Total

Developmental courses note: A student may be required to enroll in developmental courses in reading, writing and math. A student's scores on the Accuplacer assessment will determine enrollment in developmental courses. The purpose of developmental courses is to prepare students for the demands of a college-level curriculum. *Credits may vary.*

Accreditation: Minnesota State Community and Technical College is accredited by the Higher Learning Commission, a regional accreditation agency recognized by the U.S. Department of Education. More information can be found at www.minnesota.edu/accreditation.



Curriculum requirement details

Required courses

Crds Course PWST1002 - Snowmobile, Off Road Vehicle and Motorcycle Maintenance PWST1014 - Personal Watercraft and Marine Engine Maintenance PWST1015 - Marine Engine Installation and Set Up 3 PWST1017 - PowerSports Fuel Systems 3 PWST1021 - Ignition, Charging and Starter Systems 3 PWST1025 - Marine Fuel Systems 3 PWST2210 - Snowmobile Clutch and Drive Systems 3 PWST2308 - Advanced Snowmobiles 3

Other requirements or restricted electives

6 credits from these Course Types:

• General Education w/MnTC Goals



Course summaries

PWST1000 - Introduction to PowerSports
PWST1002 - Snowmobile, Off Road Vehicle and Motorcycle Maintenance
PWST1014 - Personal Watercraft and Marine Engine Maintenance
PWST1015 - Marine Engine Installation and Set Up
PWST1017 - PowerSports Fuel Systems
PWST1021 - Ignition, Charging and Starter Systems
PWST1025 - Marine Fuel Systems
PWST1080 - Snowmobile Engines
PWST1115 - Electrical Foundations
PWST2013 - Power Hydraulics
PWST2016 - Outboard Engine Systems
PWST2017 - Marine Drive Systems
PWST2115 - All-Terrain Vehicles Systems
PWST2206 - Chainsaws and Generators

Prerequisites:

• PWST1115



This course is designed to test troubleshooting skills and knowledge. Students will be presented with motorcycle problems and, using a systematic approach, students will identify and repair the unit. This course is designed to simulate the role of a technician in a dealership. Students will be expected to write a work order, estimate repairs, make the repair and finalize the work order.



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Program Plan — "Fall Start Students"

Locations: Moorhead

1st Fall Term (18 credits)

Courses

Course	Cro
PWST1000 - Introduction to PowerSports	3
PWST1017 - PowerSports Fuel Systems	3
PWST1080 - Snowmobile Engines	3
PWST1115 - Electrical Foundations	3
PWST2210 - Snowmobile Clutch and Drive Systems	3
PWST2308 - Advanced Snowmobiles	3

1st Spring Term (15 credits)

Courses

Course	Crds
PWST1002 - Snowmobile, Off Road Vehicle and Motorcycle Maintenance	3
PWST2115 - All-Terrain Vehicles Systems	3
PWST2304 - Motorcycles I	3
PWST2312 - Advanced Motorcycle Systems	3

3 credits in one or more of the following:

General Education w/MnTC Goals

2nd Fall Term (15 credits)

Courses

Course		Crd
PWST1014 - Personal Watercraft and Marine Maintenance	Engine	3
PWST1021 - Ignition, Charging and Starter Sy	stems	3
PWST1025 - Marine Fuel Systems		3
PWST2013 - Power Hydraulics		3
PWST2017 - Marine Drive Systems		3

2nd Spring Term (12 credits)

Courses

Course	Crds
PWST1015 - Marine Engine Installation and Set Up	3
PWST2016 - Outboard Engine Systems	3
PWST2206 - Chainsaws and Generators	3

3 credits in one or more of the following:

General Education w/MnTC Goals