



Bridges Career Academy

Transportation

Pequot Lakes High School

Understand the basic skills necessary to service and maintain small engines, and the variety of outdoor power vehicle careers — from repair to sales. Put your knowledge and skills to work as to build and compete a super mileage car in a regional competition. Learn with the tools and equipment used by technicians in small engine/outdoor power businesses. Gain entry-level employment or continue education.

Academic Courses

- Super Mileage
- Intro to Metals
- Small Engine Theory and Repair

Career Experiences

- Tour local businesses
- Listen to industry speakers
- Attend the Bridges Career Exploration Day or other regional career fairs
- Practice outdoor equipment maintenance and repair

Completion Standards

COMPLETE

ALL courses

GRADES **B** ↑

Earn a **certificate** and **green cord** at graduation



MINNESOTA STATE
CAREERwise Education

Log in to learn more

Explore types of careers

www.careerwise.minnstate.edu/careers

Review the local job outlook

www.careerwise.minnstate.edu/jobs

Find postsecondary programs

www.careerwise.minnstate.edu/education

Job Skills

In addition to having technical skills, employers expect workers in this industry to have these skills:

- Listening skills
- Ability to work with customers
- Critical thinking, problem solving and decision-making skills
- Managing tools and equipment



Transportation Career Academy

Pequot Lakes High School

The Transportation Academy allows students to acquire the basic skills necessary to service and maintain today's small engines. In addition, students put their knowledge and skills to work as they build and compete a super mileage car in a regional competition. The Academy offers curriculum that aligns with the methods, tools and equipment used by technicians in small engine/outdoor power businesses. This Academy introduces students to the variety of outdoor power vehicles career fields and has options from repair to sales. Students wishing to continue their education can transfer their skills to higher education.

ACADEMY COURSES

Super Mileage — .5 High School Credit

This course will cover the design and fabrication of a super mileage vehicle. The course will focus on engineering, incorporating math and science concepts, design, and drawing, metal fabrication, fabrication using exotic materials, small engine and graphics.

The highlight of this course includes a two-day competition held at Brainerd International Raceway in May.

Introduction to Metals — .5 High School Credit

This course will consist of an introduction to the metal working area. All areas of metalworking are explored including arc welding, wire feed welding, using a cutting torch, sheet metal and lathe work. Proper use of all tools and machines and safety in the metal shop is emphasized.

Small Engines Theory and Repair — .5 High School Credit

Students will learn the theory of two stroke, four stroke, rotary, hot air and steam engines. They will also disassemble and reassemble a four stroke engine. Students will engage in the repair of four stroke engines.

COMPLETION STANDARD

Students wishing to receive a certification for this academy must complete all courses while earning a grade of "B" or better in each course.

CAREER EXPERIENCES

Students will explore and research careers with industry speakers, practice outdoor power equipment maintenance and repair, tour local dealerships, and attend the Bridges Career Exploration Day event and other regional career fairs.

JOB SKILLS

In addition to having technical skills, employers expect their workers to have other skills such as:

- Listening skills
- Ability to work with customers
- Critical thinking, problem solving and decision-making skills
- Managing tools and equipment

CAREER OPTIONS: www.careerwise.minnstate.edu/careers

JOB OUTLOOK: www.careerwise.minnstate.edu/jobs

POSTSECONDARY PROGRAMS: www.careerwise.minnstate.edu/education

