

Operating Engineers Apprenticeship Readiness

Minnesota Virtual Academy (MNVA) has partnered with Local 49 of the Union of Operating Engineers to offer an Operating Engineers Apprenticeship Readiness Pathway. This pathway is part of the STRIDE Career Prep Program at MNVA

Stride
Career Prep



Course Offerings 4 Semester Courses

CAR022: CONSTRUCTION EXPLORATIONS –Offered Fall 2020, Spring 2021 and 2021-2022

- This course provides students with an introduction of the basic equipment used in the construction industry. Students learn about basic equipment operations and job responsibilities. This course prepares students to use concepts pertaining to safety, maintenance, mathematics and communication that Operating Engineers may experience.

BASIC GRADE & CONSTRUCTION MATH – Offered Spring 2021 and 2021-2022Destinations Career

- In this course, students will be introduced to core equipment used in the staking process, as well as Personal Protective Equipment (PPE) used in the construction industry. Communication processes used in the construction industry for interpreting and setting grade are also an important part of this course. Students will learn mathematical concepts related to the construction industry for grade staking.

Basic Construction Equipment Fundamentals - Offered 2021-2022

- In this course, students will be introduced to core equipment used by operating engineers, as well as their maintenance needs. Communication processes used by operating engineers, rigging and signaling practices, safety awareness and mathematical concepts related to the construction industry are also covered.

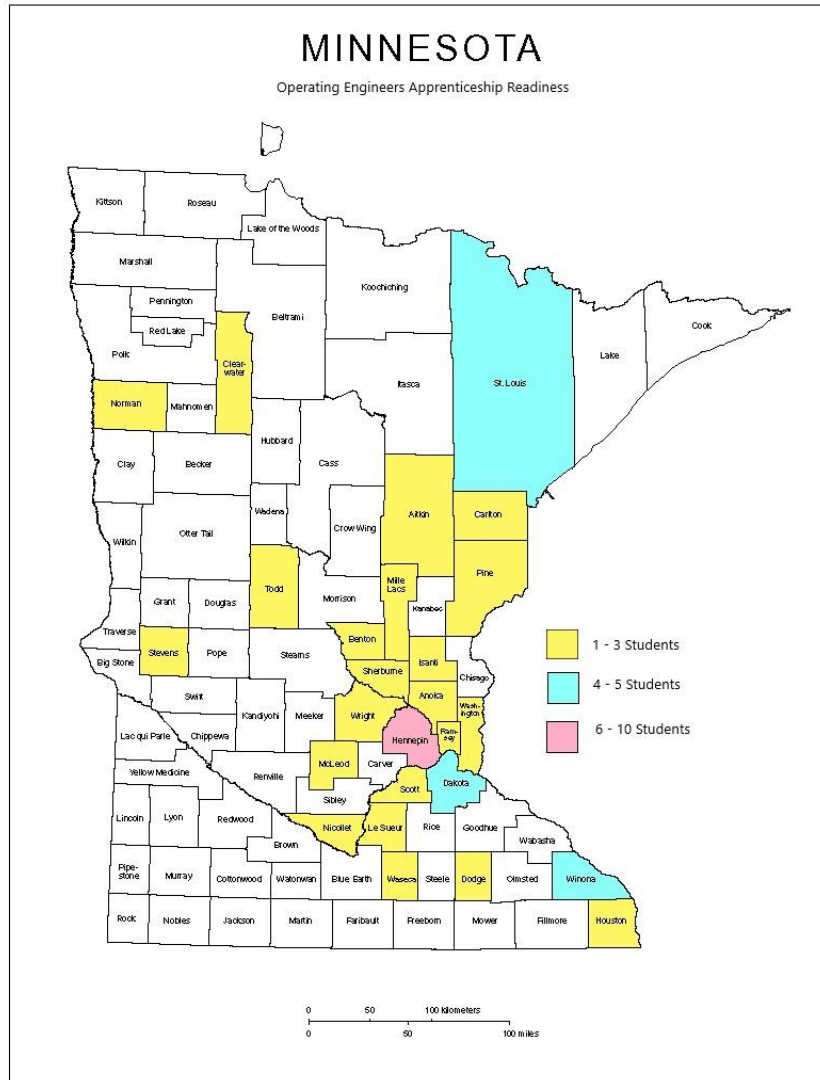
Basic Maintenance of Mobile Equipment - Offered 2021-2022

- This course focuses directly on maintenance of mobile equipment through a series of engaging tutorials. A major focus of the course is on maintenance safety including such topics as LOTO. Other topics include tools and fasteners, preventative maintenance principles, engines, intake and exhaust, fuel systems, coolant systems, filters and filtration, lubrication systems, hydraulics, electrical systems, tires, and tracks and undercarriages.

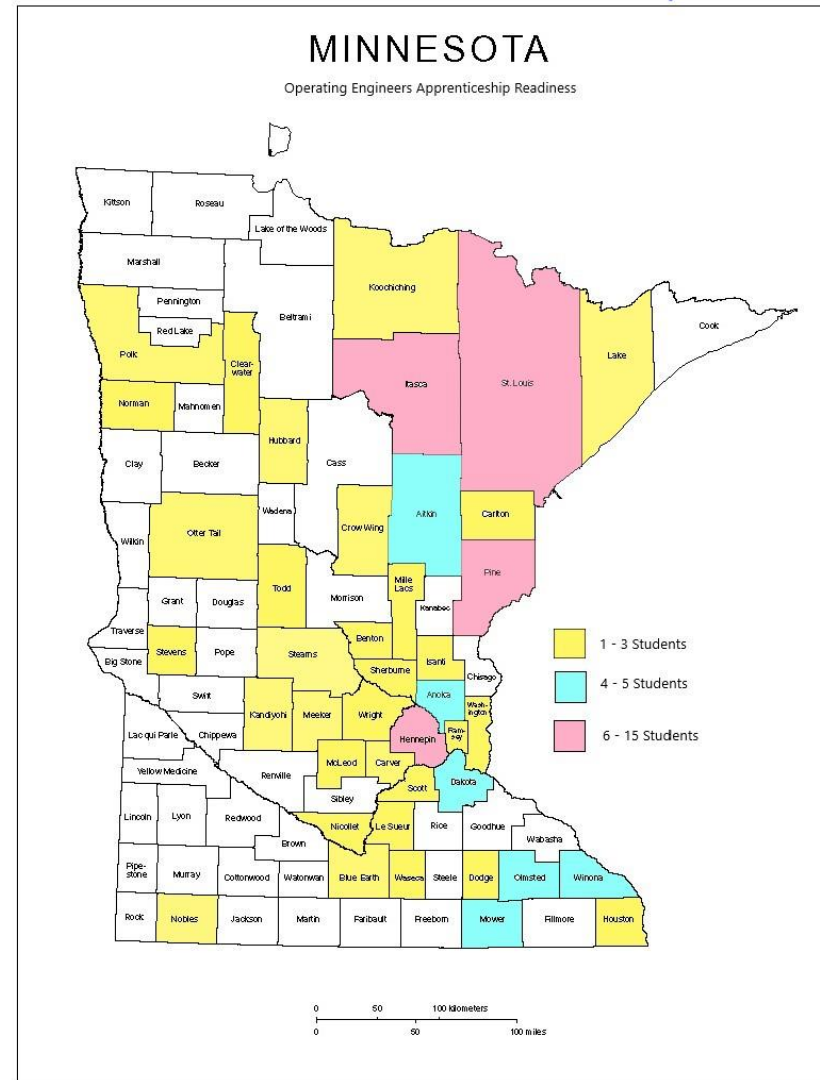
Virtual Course Work with Intentional Hands-On Support

- Course work is delivered through the MNVA learning platform
- Live teaching sessions are recorded for student access outside of traditional school hours
- Hands on activities developed for each course, including virtual field trips, simulator experiences and onsite exploration at the Local 49 Training Center

1st Semester 20-21



2nd Semester 20-21



3 for 1 Opportunity for Students

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North Hennepin
Community College
A member of Minnesota State



1. High School Elective Credit
2. Articulated College Credit for 3 of the Courses
3. Credit Hours toward the Registered Apprenticeship Program

Equity Strategy

Outreach

Exposure

Placement

Retention

- Clear information early and available to any student in Minnesota
- 15% of initial cohort were female
- 7% of current cohort are students of color

School
Challenge
&
Student
Focused
Solution

Challenge

Financial Impact of Pathway Enrollment
Shared Time Enrollment

Solution

Dollars allocated through HF1337 allows schools the flexibility to support participation in a pathway that is in the best interest of a students and doesn't force them to choose between that and the districts bottom line



Links

- Overview Video:
 - <https://youtu.be/j97lvCbjzc>
- [Local 49](#)
- [STRIDE Career Prep at Minnesota Virtual Academy \(MNVA\)](#)

Contact Information

Stride
Career Prep

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