New Program scheduled to start September 2018

This two-year program is based on the National Center for Construction Education and Research (NCCER) curriculum. Students will learn how to operate and maintain large, construction-related equipment. Types of equipment may include backhoes, dozers, front end loaders, excavators, and forklifts. Students will also learn how to diagnose and repair common issues with diesel engines and heavy machine operation.

Characteristics for Success:
- A strong interest in operating and repairing large diesel equipment
- Ability to problem solve and design solutions
- Excellent attendance
- Parental support of the career and Heavy Equipment program

Recommended Home School District Courses:
- Regents Algebra
- Earth Science

Topics Covered:
- Introduction
  > Heavy Equipment Safety
  > Equipment Identification
  > Hand Tools
  > Power Tools
- Operation and Maintenance
  > Basic Operational Techniques
  > Front End Loaders
  > Excavators
  > Dozers
  > Backhoes
- Diesel Technology and Repair
  > Diesel Engines
  > Power Trains
  > Air Brake Systems
  > Steering Systems
  > Suspension Systems
  > Electrical Systems
  > Hydraulics
  > Welding

Related Career Opportunities (attainable through program):
- Heavy Equipment Operator
- Truck Mechanic
- CDL-B Driver

Industry-Based Certifications (attainable through program):
- Occupational Safety and Health Administration (OSHA) Safety Certification (10 hour)
- NCCER certifications by module
- Industrial Lift Truck Certification

Technical Assessment:
- NCCER Heavy Equipment Operator’s Certification Level 1
- Pass ALL three parts of the technical assessment: written, performance and portfolio

CONTACT INFORMATION:
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