

Diesel Technology

PROGRAM DESCRIPTION:

The Diesel Technology program is a two-year program designed to prepare students, both male and female, for entry-level positions in the heavy equipment industry or to prepare them for furthering their education/training at a post-secondary institution.

Students enrolled in the Diesel Technology program will learn the operation theory, maintenance and repair of large trucks and off-road equipment. The systems studied will include electrical, hydraulic, engines, air systems, brakes, and power transmissions. Emphasis is placed on the safe operation of hand and power tools, overhead cranes, and forklift trucks.

After acquiring the fundamental skills of the trade, students will perform maintenance and repairs on heavy equipment and trucks.

Along with technical material, this program will include units on leadership, communication skills, goals setting, problem solving, conflict resolution, and responsible decision-making.

PROGRAM BENEFITS:

- ◆ 3 High School credits
- ◆ Competency Certificate
- ◆ Leadership opportunities through Skills USA
- ◆ Entry level job skills
- ◆ Preparation for next level of education/training
- ◆ Successful completion of the program, with a grade of “B” or higher, may result in college credits

INDUSTRY CERTIFICATION:

This program is certified by the National Automobile Technician Education Foundation (NATEF) to prepare students to take the Automotive Service Excellence (ASE) test

PREREQUISITES:

- ◆ The student must indicate that they have made a decision to pursue a vocation in Diesel technology or a related industry.
- ◆ Participation in Orientation/Interview at the Skills Center
- ◆ The student must demonstrate a mechanical aptitude suitable for the trade
- ◆ Ninth grade reading and eighth grade math skills
- ◆ Application process for second year students requires successful completion of the first year program and teacher recommendation.

STUDENT COSTS:

- ◆ Mechanic coveralls – approximate cost \$30
- ◆ Leather work shoe required – approximate cost \$45 - \$65
- ◆ Family medical insurance **or** student accident insurance is required. Student accident insurance is available through the Skills Center or sending school.

ORGANIZATIONS:

Possible enrollment in Skills USA

LAB TIME/THEORY TIME:

Approximately 40 percent of the time will be devoted to theory and 60 percent to lab

HOMEWORK:

Average of 2 hours per week

TEXTBOOK READING LEVEL:

Theory material 9.0

CAREER OPPORTUNITIES:

- ◆ Transportation Industry
- ◆ Agriculture Machinery
- ◆ Logging Machinery
- ◆ Heavy Equipment Operator
- ◆ Diesel Technician
- ◆ Sales/Parts
- ◆ Service Management
- ◆ Fleet Management