

2020-2021 Diesel and Equipment Technology

Academic Essential Skills

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| Reading | Grade level reading ability recommended; frequent use of computer programs and/or charts to look up vehicle diagnostic information and specifications. |
| Writing | Daily lab sheets are completed and graded for sentence structure and grammar rules; workbook assignments. |
| Math | Algebra or higher needed. |
| Memorization/ Notetaking | Notes are given daily in the classroom. Tests are given after each segment and contain up to 100 questions. |
| Science | Science subjects covered include Ohm's Law, chemistry, and physics concepts. |

Physical Skills

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| Physical Requirements | Able to lift heavy objects; lots of bending and twisting movements required. |
| Clothing/Special Equipment | Full length pants, shirts that cover arms to elbows, and proper footwear (closed toe/heel boots or shoes) required. Eye protection is provided and required to be worn at all times. |
| Fine Motor Skills/Coordination | Ability to work with small fasteners; ability to read fine print; requires work in confined/tight spaces. |
| Spatial Awareness | May often be required to move equipment, cars, and machines. |

Other Requirements

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| Medical Requirements | Student will be in settings with continual exposure to diesel and gas fumes, heat, and torch lights; may affect allergies. Chemicals, such as oil, may react with the skin. |
| Related Interests | Interest in transportation and/or repair. |
| Transportation | Students may have the opportunity to participate in work-based learning experiences, which would require the student to provide transportation to and from the work site. |
| Certification/Licensure | Can earn ASE Entry-Level Certifications and Heavy Duty Truck State Certifications. |
| Homework | Chapter and workbook assignments are given approximately every two weeks. Some time is allotted in class, but students may need to take work home if not finished. |
| Classroom Instructional Methods/Time | Approximately 30 minute lecture, 2 hours in lab covering task demonstration/practice. |

Additional Information

Demonstrated pattern of regular attendance critical to student success.

This program is a National Automotive Technicians Education Foundation (NATEF) certified program that prepares students for careers in the fast-paced field of diesel and equipment technology.

In the first year, students learn basic shop practice and safety, electrical systems, and diesel engine repair.

Second-year students learn brake systems, suspension and steering, and preventative maintenance.

Revised 1-4-20

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