



Diesel Technology Program

Heyward Career and Technology Center

Columbia, South Carolina



NATEF Accredited Areas:

- Diesel Engines
- Brakes
- Suspension and Steering
- Electrical/Electronics

Student Credentials:

- ASE Student examinations

Program Structure:

- Level 1 – 10th Grade
- Level 2 – 11th Grade
- Level 3 – 12th

Admission Requirements:

- Written Application
- Complete Algebra I with a “C” or better
- No serious discipline incidents
- Parent/Guardian endorsement
- Athletic physical (awaiting approval)
- Drug screening (awaiting approval)

Course Advancement:

- Maintain an overall GPA of 2.5 or higher
- Three or less unexcused absences per course
- Comply with all safety requirements
- Complete each program level with a “C” or better
- Instructor recommendation to advance to the next level

Program Description:

Students enrolled in Level I will learn nomenclature and use of typical technician tools and test equipment. Students learn how to accurately measure critical engine parts. Students learn the function of engine components and principles of operation of a medium duty inline six-cylinder engine. Students will safely disassemble, measure, and inspect critical engine wear parts, reassemble, start, and monitor running engine performance parameters.

Students enrolled in level II will learn truck brakes, suspension and steering, and preventative maintenance inspection skills in accordance with National Automotive Technicians Education Foundation (NATEF) standards. Qualified students will participate in an Automotive Youth Educational Systems (AYES internship).

Students enrolled in Level III will learn truck electrical/electronic skills in accordance with National Automotive Technicians Education Foundation (NATEF) standards. Students that qualify for a continued AYES internship will do so during the second semester of their senior year. Students will also work on customer vehicles.

Apprenticeship Description:

Youth Apprenticeship: A structured program giving youth at least age 16 or older an opportunity to earn while they learn. This forward-focus program combines classroom instruction with one to two years of on-the-job training with an end result in a “certification of mastery of a specific technical skill.” A youth apprenticeship may matriculate to a registered apprenticeship after high school. High school completion is a requirement of the program.

Internship Description:

Internship: A progressive, school-coordinated experience that places students in real workplace environments so that they develop and practice career-related knowledge and skills needed for a specific level job. An internship provides hands-on experience in a particular industry or occupation related to a student’s career interests, abilities, and goals. A learning contract outlines the expectations and responsibilities of the high school and worksite including a specified number of hours in the training agreement. The high school intern works regularly during or after school in exchange for the worksite mentor’s time in teaching and demonstrating.

Apprentice & Intern Information:

Requirements:

Must be at least 17 years old

Must complete Diesel Tech level 2 with a “C” or better

Must have an overall GPA of 2.0 or higher

Must pass a company drug screen

Must have transportation

Complete an Apprentice/Intern application

Instructor recommendation

Parent permission

Students will have received training in the following areas:

Diesel Engine

Brakes

Steering & Suspension

Preventative Maintenance Inspection

Driveshaft & Axles

Application process:

Interested companies present to students.

Students complete an application process (students request company based on company presentation), applications screened by the instructor and Career and Technology Education Department. Applications set to companies. Student interviews scheduled.

NOTE: Students are covered for Liability and Worker's Compensation provided by:

South Carolina School Boards Insurance Trust

Full Time Employment:

Program Graduates are available every June. Graduates will have successfully completed classroom and lab work in the following areas:

Diesel Engines

Brakes

Suspension & Steering

Preventative Maintenance Inspection

Electrical/Electronic

Basic diagnostics

Students will have the opportunity to participate in our tool loan program (the school will loan students a basic tool set for one year).