

The Henrico County Advanced Career Education (ACE) Centers offer training opportunities in the following areas for the 2016-2017 school year:

ADVANCED CAREER EDUCATION (ACE) CENTER at HERMITAGE
804-756-3020

Air Cond., Refrigeration & Plumbing	Graphic Communications
Automotive Technology	Greenhouse Management
Barbering	Landscaping
CAD - Computer-Aided Drafting & 3D Animation	Legal Systems Administration
Cosmetology	Medical Systems Administration
Criminal Justice	Nurse Aide
Culinary Arts	Practical Nursing I
Diesel Technologies	Precision Machining Technology
Electricity & Cabling	Sports Medicine
Emergency Medical Technician	Veterinary Assistant
	Web Development/Programming

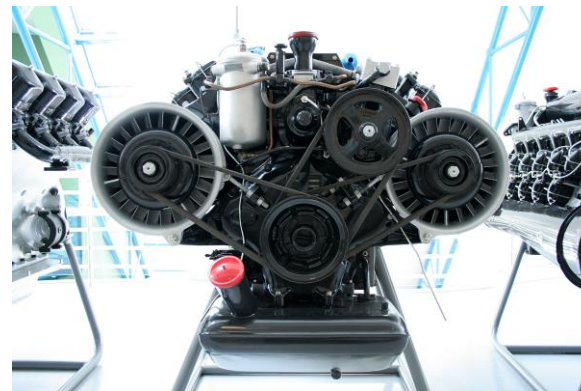
ADVANCED CAREER EDUCATION (ACE) CENTER AT HIGHLAND SPRINGS
804- 328-4075

Auto Body Repair	Electricity & Cabling
Automotive Technology	High Tech Academy
Carpentry	Tourism Marketing and Sales
Computer Systems Technology	Masonry
Cosmetology	Nurse Aide
Criminal Justice	Pharmacy Technician
Early Childhood Education & Services	Practical Nursing I
	Radio Broadcasting & Journalism

Henrico County Public Schools does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or provision of programs, services, or activities. Reasonable accommodation will be provided upon request for individuals with disabilities.

For additional information, please contact a counselor in your school or write or call:

Career and Technical Education Department
Henrico County Public Schools
3751-C Nine Mile Road, Henrico, VA 23223-0420
(804) 781-1810
HENRICOCTE.COM



DIESEL TECHNOLOGIES I

Elective

Prerequisite: Recommendation of Counselor

Course No. 8613

36 weeks - 3 credits

The diesel engine is the workhorse powering the Nation's trucks and buses, because it delivers more power and is more durable than its gasoline burning counterpart. Diesel-powered engines are becoming more prevalent in light vehicles, including pickups and other work trucks. This course will introduce students to the fundamentals of diesel equipment technology. Students will become familiar with the proper use of hand and power tools, and precision measurement. Students will identify, disassemble, clean, inspect and rebuild various components of a diesel engine. Students will be introduced to the fundamentals of tune up and troubleshooting used in diesel equipment technology.

DIESEL TECHNOLOGIES II

Elective

Prerequisite: Diesel Technology I

Course No. 8614

36 weeks - 3 credits

Medium and heavy truck preventative maintenance & inspection used in diesel equipment technology will also be covered in the program. During a routine maintenance check on a vehicle, students follow a checklist that includes inspecting brake systems, steering mechanisms, wheel bearings, and other important parts. Following inspection, students will repair or adjust parts that do not work properly or remove and replace parts that cannot be fixed. Students will study support systems and the heavy truck chassis concepts which are used in diesel equipment technology.



Desirable Aptitudes and Background Courses

Students should have a desire to succeed, be dependable, be mechanically inclined with good computer skills, and have good eyesight, hearing, and manual dexterity.

Helpful elective courses include: technology education and electronics. A good background in mathematics and physical science is important.

Employment Opportunities

Employment opportunities for diesel technicians are expected to continue to increase. Diesel technicians are in high demand with salaries rising to attract skilled technicians to dealerships and municipal maintenance facilities. Opportunities for advancement are great for the skilled technician. Qualified students can receive AYES (Automotive Youth Educational Systems) internships as juniors for post-high school full-time employment. A willingness to pursue additional training after high school is essential for a successful career. Wages vary by location and will vary according to ability, experience, and area of mechanical skill. However, wages are considered to be high with yearly salaries ranging in excess of \$60,000.

Earn your National Automotive Student Skills Standards Assessments (NA3SA) certification.



This is a new program and the Diesel Technology course is working toward being certified by:

NATEF - National Automotive Technician Education Foundation, ASE (Automotive Service of Excellence) Certified AYES – Automotive Youth Educational Systems