

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



AUTOMOTIVE TECHNOLOGY I**Elective****Prerequisite: Recommendation of Counselor****Course No. 8506****36 weeks - 3 credits**

Automotive Technology is a course designed to provide preparation and training for entry into the many fields related to the automotive industry. The first year is spent learning and practicing general service, maintenance, light repair, and upkeep of all aspects of the automobile, such as brakes, engine repair, and tune-up. State-of-the-art technology is emphasized throughout the program.

AUTOMOTIVE TECHNOLOGY II**Elective****Prerequisite: Automotive Technology I****Course No. 8507****36 weeks - 3 credits**

The second year course involves study and experience in engine repair, electrical systems, and four-wheel alignment. Instruction and training are also provided to develop a thorough understanding of design, construction, and operation of all automotive systems. Techniques which entail diagnostic testing devices to determine the cause of faulty operation, or to properly adjust complex automotive devices and/or systems, are an integral part of this course. With approval and recommendation of the teacher, students may spend time in actual on-the-job work experiences during the second semester.

Major Units of Study

- | | |
|---------------------------|-----------------------------------|
| 1) Safety | 10) Braking systems |
| 2) Shop routine | 11) Drive train |
| 3) Engines | 12) Heating and air conditioning |
| 4) Fuel systems | 13) Cooling system |
| 5) Exhaust systems | 14) Troubleshooting |
| 6) Electrical systems | 15) State inspection regulations |
| 7) Diagnostic performance | 16) Cost accounting & inventory |
| 8) Suspension systems | 17) Practical work experience |
| 9) Steering alignment | 18) Youth organization membership |



Earn dual enrollment with Reynolds Community College.

Desirable Aptitudes and Background Courses

Students should have a desire to succeed, be dependable, be mechanically inclined, 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 automotive technicians are expected to continue to increase. Automotive technicians make up the largest repair occupation in the labor force. 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.



The Automotive Technology

Program is certified by:

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