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 Legal Systems Administration
& 3D Animation Medical Systems Administration

Cosmetology Nurse Aide
Criminal Justice Practical Nursing I

Culinary Arts Precision Machining Technology

Diesel Technologies Sports Medicine
Electricity & Cabling Veterinary Assistant

Emergency Medical Technician 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 Techn

Criminal Justice Pharmacy Technician Early Childhood Education Practical Nursing I

& Services 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:

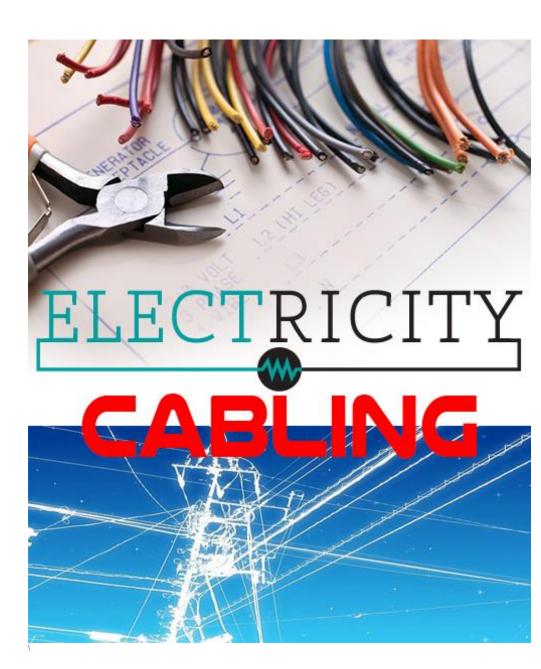
Career and Technical Education Department Henrico County Public Schools 3751-C Nine Mile Road, Henrico, VA 23223-0420 (804) 781-1810 HENRICOCTE.COM







HNICAL EDUCATION WORK FOR HENRICO*



ELECTRICITY & CABLING I

Elective

Course No. 8533 36 weeks - 3 credits

Prerequisite: Recommendation of Counselor

Electricity & Cabling I is designed to prepare students for entry into electricity-related occupations. Basic principles of electricity are stressed in the first year, with emphasis on residential wiring. Fundamentals are learned through the use of materials, tools and techniques used in installation, maintenance, and repair of electrical equipment. Students may spend time at actual construction sites. NOTE: Students can earn one year of a four-year state/national approved apprenticeship program through this two-year class. Students will have the opportunity to earn the 10-hour OSHA certification, as well as the National Center for Construction Education and Research (NCCER) certification. Students who qualify may be placed with an electrical contractor for summer work.

ELECTRICITY & CABLING II

Course No. 8534

Elective 36 weeks - 3 credits

Prerequisite: Electricity & Cabling I

The second year Electricity & Cabling student continues to study direct and alternating current (AC/DC), industrial electricity and motors, as related to practical laboratory work in home and industrial wiring. All projects include applied math, theory and fundamentals in the field of electricity. Students may participate in the construction of a house. With approval and recommendation of the teacher, students may spend time in actual work experiences during the second semester. NOTE: Students can earn one year of a four-year state/national approved apprenticeship program through this two-year class.

Major Units of Study

- 1) Basic electrical theory
- 2) Methods of wiring
- 3) Appliance repair
- 4) Residential wiring
- 4) Residential willing
- 5) Commercial wiring
- 6) Residential blueprint reading

- 7) Basic motor controls
- 8) Electric motors operation
- 9) Electrical codes
- 10) Various applications of electricity
- 11) Practical work experience
- 12) SkillsUSA youth organization

Recommended Background Courses

A good background in mathematics would be of great value to a student entering this field. Classes in technical drawing and technology education are helpful. The student should be able to work with his hands.

Desirable Aptitudes

Persons interested in this field should be in good health, have good manual dexterity, good eyesight and good communication skills. Good hand-eye coordination and following instructions are vital, as is the ability to manipulate small tools and electrical equipment.

Employment Opportunities

Electricians are employed in every city, town, and community throughout the country and the world. Continued growth is expected and there is always a demand for electricians.

Post-secondary

Skilled and experienced electrical workers make more than \$30/hr. The field of electricity is one of the highest paid areas in the construction business. Salaries may vary according to specialty, experience, location of employment, and ability.

Students who complete this program are prime applicants for the Electrical Apprenticeship Programs in the Richmond area. In addition, the apprenticeship credit enhances any college engineering degree. Please feel free to call to talk with the instructor or schedule a visit.



ACE Center at Hermitage serves students from:
Deep Run, Freeman, Glen Allen, Godwin, Hermitage,
and Tucker High Schools

ACE Center at Highland Springs serves students from: Henrico, Highland Springs, and Varina High Schools