

**ELECTRICAL TECHNOLOGY (Residential and Commercial Wiring) - 3 Credits**

**PREREQUISITES:**

Students wishing to attend the Electrical Technology Program should have an excellent attendance record (less than 10 days missed the previous year), a tenth grade reading level, knowledge of the metric system, completed Algebra I, and an overall scholastic average of “C” or better. Students shall be able to read a ruler or tape measure to 1/16<sup>th</sup> of an inch, not be color blind, and have manual dexterity for heavy lifting, bending, and working overhead.

**DESCRIPTION:**

This area of study is designed to provide learners with basic skills in electricity. Major instructional concepts include: applied wiring methods and advanced wiring techniques in accordance with the National Electric Code in residential, industrial and commercial wiring, rotating devices and controls. Other areas of study include: reading and understanding blueprints, schematics, wiring diagrams, and electrical specifications; general occupational information; electrical equipment and supplies. Successful completion of the core courses prepares the individual for employment in the electrical field as well as provides the foundation fundamentals to pursue continuing education or a degree in the electrical field. Students will complete a contents standards and objectives test administered by the West Virginia Department of Education at the end of each semester. Individuals completing this 2-year (4 semesters) course with a “C” average and less than 20 days missed are eligible to take the West Virginia State Electrical Journeyman’s test. This course has an agreement with Mountain State University to receive 24 hours of elective credit upon successful completion and is EDGE certified.

*Offered 2007-2008*

*ELECTRICAL TECHNOLOGY: 176509 (3 credits)*

ELEC-I&C WIR - Industrial & Commercial Wiring (180 hours; 1st semester) 176519

ELEC-NTLCODE - National Electrical Code (180 hours; 2nd semester) 176719

ELEC-ROTAT - Rotating Devices & Control Circuitry (180 hours, both semesters) 177129 & 177129

*Offered 2008-2009*

*ELECTRICAL TECHNOLOGY: 176309 (3 credits)*

ELEC-FUND - Fundamentals of Electricity (180 hours; 1st semester) 176319

ELEC-RES WIR - Residential Wiring (180 hrs; 2<sup>nd</sup> semester) 176929

ELEC-BASIC – Basic Electronics (180 hrs, both semesters) 176119 & 176129

**The Electrical technology curriculum alternates annually. Students are expected to complete a two year program for skilled level program certification.**