www.WhitewaterCareerCenter.org

ELECTRICITY

WHITEWATER CAREER CENTER

PROGRAM OVERVIEW

Electricity gives students hands-on experience in installing and repairing electrical and wiring systems for residential, commercial, and community projects. Instruction includes reading and interpreting technical drawings, as well as applying mathematical principles to solve real-world electrical problems in both AC and DC circuits.

Students explore key concepts such as electron theory, Ohm's Law, Watt's Law, Kirchoff's Law, series and series-parallel circuits, current, voltage, and resistance. The program blends classroom instruction with lab-based practice, preparing students for careers in the electrical trades.



>>> YOU WILL LEARN

- Residential wiring
- How to read technical drawings
- Theory & how to apply it to projects
- How to use mathematical principles to solve electrical problems



MEET JACKSON

FUTURE ELECTRICIAN.

Union County High School and Electricity student at Whitewater Career Center

ELECTRICITY

CERTIFICATION & DUAL CREDITS

OSHA 10-Hour Construction Industry
HBI (Home Builders Institute & National Association of Home Builders) - House Wiring Basic

Vincennes Dual College Credits*

CNST 100	Construction Seminar	1 credit
CNST 120	Construction Safety	3 credits

Certifications are earned in year one and two. Dual credits are earned in year one. Students must meet the eligibility requirements to enroll in dual credit courses.

**Certifications and dual credit courses offered are subject to change.



NEXT CAREER STEPS

Upon completing the Electricity program, students are well-prepared to begin entry-level employment in the electrical trades or related fields. Many graduates pursue apprenticeships with licensed electricians or trade unions, where they can continue building their skills while earning a wage. Others choose to further their education in 2- or 4-year degree programs in fields such as electrical engineering, industrial technology, or renewable energy systems. Military service and specialized training programs are also strong pathways, offering students opportunities to advance their careers with additional certifications and hands-on experience.

POTENTIAL CAREERS

- Electrician
- Electrical & Electronics Repairer
- Electrical Power Line Installer & Repairer
- Electrical & Electronics Engineering Technician
- General Maintenance & Repair Worker

COURSE INFORMATION

Cluster: Architecture & Construction
Pathway: Construction Trades - Electrical

ELECTRICITY YEAR I

DOE Course Codes:

7130	Principles of Construction Trades	1 credit per semester
7124	Electrical Fundamentals	1 credit per semester
7119	Advanced Electrical	1 credit per semester

Co-requisites: Courses must be taken concurrently
Recommended Grade Levels: 11, 12

ELECTRICITY YEAR II

DOE Course Codes:

4832	Construction Trades: Electrical II	3 credits per semester

Prerequisite: Year I
Recommended Grade Level: 12

Centerville | Connersville | Franklin County
Lincoln | Rushville | Union County

WHITEWATER CAREER CENTER

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