



ELECTRICAL

PATHWAY



PATHWAY OVERVIEW

The Electrical pathway helps students build knowledge and hands-on skills in construction safety, tools, materials, building systems, and jobsite practices.

Through Industry Fundamentals & Occupational Safety, Introduction to Construction, and Electrical I, students prepare for postsecondary education, industry credentials, and work-based learning experiences connected to the field.



CAREER CLUSTER

Construction

COURSE SEQUENCE + WORK-BASED LEARNING

1

Industry Fundamentals & Occupational Safety

Introduces construction careers, OSHA-aligned safety practices, hand and power tools, measurement, and foundational jobsite expectations.



2

Introduction to Construction

Builds foundational construction skills through blueprint reading, measurement, materials, tools, building systems, and hands-on project work.



3

Electrical I

Introduces electrical theory, circuits, wiring methods, tools, codes, and safe installation practices through hands-on laboratory experiences.



Work-Based Learning (Capstone Experience)

Apply classroom learning through internships, apprenticeships, industry projects, and supervised experiences with construction and skilled-trades partners.

LEADERSHIP + INDUSTRY CONNECTIONS

CAREER & TECHNICAL STUDENT ORGANIZATION



COMPETITION OPPORTUNITIES



- Electrical Construction Wiring
- Industrial Motor Control
- TeamWorks
- Technical Math

CHAPTER ACTIVITIES



- Community build projects
- SkillsUSA Week
- National Signing Day
- Work readiness training
- SkillsUSA leadership conferences

CO-CURRICULAR / INDUSTRY EXPERIENCES



- Industry/jobsite tours
- Industry panels
- Guest speakers/demos
- NCCER connections
- OSHA 10
- Partner apprenticeship opportunities

SCHOOLS OFFERING THIS PATHWAY

Roswell

CAREER OPPORTUNITIES

CAREERS

Electrician

Electrical Estimator

Controls Technician

ATLANTA-AREA EMPLOYERS



POSTSECONDARY OPPORTUNITIES

LOCAL / REGIONAL INSTITUTIONS



- Atlanta Technical College
- Chattahoochee Technical College
- Georgia Piedmont Technical College

DUAL ENROLLMENT



Metro-area dual enrollment options may include construction management programs through TCSG partners; verify in Georgia Futures.

