

CTE Electrician Teacher Essential Duties

Job Description

The CTE Electrician Teacher's role is to prepare students for entry-level careers or post-secondary education in the electrical industry. The instructor manages a dual-environment setting: a traditional classroom for theory and the National Electrical Code (NEC), and a high-voltage laboratory for hands-on application. The preferred candidate will be a skilled and passionate Electrical Trades Instructor to lead our high school CTE program. This role is perfect for a journeyman or master electrician who wants to transition their field expertise into the classroom to inspire the next generation of tradespeople.

Essential Duties

- **Instructional Delivery:** Teach students to read blueprints, install circuitry, troubleshoot electrical systems, and understand the physics of electricity.
- **Safety Supervision:** Maintain a rigorous safety culture in the lab. Ensure all students are proficient in OSHA standards and the proper use of hand and power tools.
- **Curriculum Development:** Adapt and implement a curriculum that aligns with state standards and industry certifications.
- **Lab Management:** Oversee the electrical shop, including tool inventory, material procurement, and the maintenance of "mock-up" training stations.
- **Industry Partnership:** Work with local industry professionals to ensure the program stays current with modern hiring needs.
- **Student Mentorship:** Guide students toward apprenticeships, post-secondary education, or immediate entry-level employment.
- **Curriculum Mapping:** Aligning classroom activities with state-mandated CTE standards and industry-recognized credentials (e.g., NCCER, OSHA).
- **Assessment:** Developing both written exams and practical "performance-based" rubrics to evaluate student competency in wiring and troubleshooting.
- **Differentiated Instruction:** Adapting trade-based math and reading materials to meet the needs of a diverse student population.

Required Qualifications

- **Certification:** Must hold (or be eligible to obtain) a State Vocational/CTE Teaching Certification.
- **Technical Knowledge:** Deep familiarity with the National Electrical Code (NEC) and various wiring methods.

- **Education:** High school diploma required; Associate's degree or higher in a related field is preferred.

Desired Skills:

- **Communication:** Ability to break down complex technical concepts into "plain English" for teenage learners.
- **Patience & Classroom Management:** Ability to manage a diverse group of students in both a classroom and a hands-on shop environment.
- **Digital Literacy:** Proficiency in basic software (Email, Google Classroom) for grading and lesson planning.