



# ELECTRICIAN

## ABOUT THIS JOB

Electricians install, maintain and repair electrical wiring, equipment and fixtures. They make sure that all electrical equipment and work is done according to a strict set of codes. They install or service lights, communications systems or a variety of electrical control systems within the mine. An individual seeking this position should have strong mathematic skills, be task oriented, like to work with their hands, be willing to work in a variety of conditions and able to adjust to different project demands.

## ELECTRICIANS PERFORM THE FOLLOWING TASKS:

- Maintain current electrician's license or identification card to meet governmental regulations
- Connect wires to circuit breakers, transformers or other components
- Assemble, install, repair, replace or maintain electrical wiring, equipment, appliances, apparatus or fixtures using hand tools or power tools
- Test electrical systems or continuity of circuits in electrical wiring, equipment or fixtures using devices such as ohmmeters, voltmeters or oscilloscopes to ensure compatibility and safety of systems
- Plan layout of electrical wiring, equipment or fixtures based on job specifications and local codes
- Inspect electrical systems, equipment or components to identify hazards, defects or the need for adjustment or repair, and to ensure compliance with codes

## PREPARATION AND TRAINING FOR THIS POSITION

A high school diploma or GED in addition to completing a vocational program or an apprenticeship is preferred for this job. Almost all Electricians begin their careers by apprenticing with a Journeyman Electrician for a period that usually lasts four years. During this time, both class work and fieldwork will be completed.



## EDUCATION:

- \* **HIGH SCHOOL DIPLOMA OR GED**
- \* **APPRENTICESHIP AND/OR VOCATIONAL CERTIFICATION**