



ELECTRICAL REPAIRMAN SURFACE (COAL)

PHOTO ID REQUIRED

Article 3 of the Coal Mine Safety Laws of Virginia establishes requirements for certification of coal mine workers. The certification requirements are included in §45.2-515. through §45.2-534. in which the Board of Coal Mining Examiners is established for the purpose of administering the certification program. The Board has promulgated certification regulations 4 VAC 25-20, which set the minimum standards and procedures required for Virginia coal miner examinations and certifications.

CERTIFICATION CLASSIFICATION: **Surface Electrical Repairman (Coal)*

This certification authorizes the holder to:

- Perform electrical work and inspections at surface locations of underground coal mines, preparation plants, and at surface (strip) coal mines (any surface location)
- Make examinations on electrical equipment
- Conduct and record results of electrical examinations

APPLICATION/EXPERIENCE REQUIREMENTS:

- Application (BCME-1) and \$40.00 fee 5 working days prior to examination
 - **Note:** Classes are limited to 20 people and tend to fill quickly. Application fees are due no later than 5 working days prior to the examination, but this will not guarantee that an opening will be available.
- One year of electrical experience in surface coal mining under the direction of a certified surface electrical repairman or appropriately related work experience approved by the Chief of the Division of Mines. **NOTE: Experience must be submitted within 5 years of passing the examination. After 5 years records are destroyed. Must reapply if future certification is desired.**
- Six months credit will be granted for electrical training from a college, technical school, or vocational school (copy of certificate required). The remaining 6 months must be surface coal mining electrical work under the supervision of a certified electrician.
- Hold a General Miner Certification and Gas Detection
- Current first aid training (MSHA 5000-23 Annual Retraining or New Miner Inexperienced Training acceptable)

NOTE: Must provide MSHA Individual Identification Number prior to certification being issued.

EXAMINATION REQUIREMENTS: A score of 80% on each element of the examination

<u>ELEMENTS OF EXAM</u>	<u>NUMBER OF QUESTIONS</u>
▪ Alternating Current (AC)	20
▪ Direct Current (DC)	20
▪ Circuits & Equipment/drawings (CE)	25
▪ Cable Splicing (CS)	20
▪ High Voltage (HV)	20
▪ Legal Requirements (LR)	20
▪ Permissibility (PR)	20
▪ Gas Detection - practical demonstration	
▪ Records - Practical Stations (5)	
1. Control Circuit Troubleshooting - Electrical Schematic Reading (ER)	
2. Electrical Examinations - Record Keeping (RK) (Surface)	
3. Cable Troubleshooting (CT)	
4. Circuit Breaker Troubleshooting (CB)	
5. Permissibility (PD)	

RECOMMENDED REFERENCE/STUDY MATERIALS:

- Electrical Study Guide/Student Training Guide (\$20.00)
- Coal Mine Safety Laws of Virginia (\$25.00)
- BCME Requirements (No charge)
- First Aid for Miners Study Guide (\$15.00)
- Title 30 CFR Parts 18, 75, 77 (Included in study guide)

The above mentioned study materials are available at the Virginia Energy's Big Stone Gap Office (276) 523-8100.

***8 hours annual continuing education required to update certification.**