

DIVISION OF MINES BOARD OF COAL MINING EXAMINERS CERTIFICATION REQUIREMENTS http://www.dmme.virginia.gov/dm/default.htm

UNDERGROUND ELECTRICAL REPAIRMAN

PHOTO ID REQUIRED

Article 3 of the <u>Coal Mine Safety Laws of Virginia</u> establishes requirements for certification of coal mine workers. The certification requirements are included in §45.1-161.24 through §45.1-161.41 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: *Underground Electrical Repairman

This certification authorizes the holder to:

- Perform electrical work and inspections at all underground and surface areas of underground coal mines
- Make examinations on electrical equipment
- Conduct and record results of electrical examinations
- **NOTE:** This certification shall be used at surface and underground mines.

APPLICATION/EXPERIENCE REQUIREMENTS:

- Application (BCME-1) and \$40.00 fee 5 working days prior to examination
- One year of electrical experience in underground coal mining under the direction of a certified underground electrical repairman or appropriately related work experience approved by the Chief of the Division of Mines
- Current first aid training (MSHA 5000-23 Annual Retraining or New Miner Inexperienced Training acceptable)
- Six months credit will be granted for electrical educational training from a college, technical school, or vocational school
- Hold a General Miner Certification

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

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

ELEMENTS OF EXAM	NUMBER OF QUESTIONS
 Alternating Current (AC) 	20
 First Aid (FA) 	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
 Cas Datastian practical demonstration 	

Gas Detection - practical demonstration

- continued on back -

- Records Practical Stations (7)
- 1. Control Circuit Troubleshooting Electrical Schematic Reading (ER)
- 2. Electrical Examinations Record Keeping Underground (RU)
- 3. Electrical Examinations Record Keeping Surface (RS)
- 4. Cable Troubleshooting (CT)
- 5. Circuit Breaker Troubleshooting (CB)
- 6. Permissibility (PD)
- 7. High Voltage Power Move (VP)

RECOMMENDED REFERENCE/STUDY MATERIALS:

- Electrical Study Guide
- Coal Mine Safety Laws of Virginia
- BCME Requirements
- Title 30 CFR Parts 18, 75, 77
- First Aid for Miners Study Guide
- Mine Gases Packet

The above mentioned study materials are available at the Department of Mines, Minerals and Energy's Big Stone Gap Office, Customer Assistance Center (276) 523-8233 and Keen Mountain Field Office (276) 498-4533.

*8 hours Electrical Repairman continuing education will update this certification.

Revised 06/02/08