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(Plus all the volunteer
help we can get)

Dec. 8, 1986

Series 14- Dept. of Mines (Energy) Certification of Coal Mine Electricians

This rule was approved by the Legislative Rule Making Review Committee on January 15, 1980 and filed on January 16, 1980. This approval deleted the following sections: 3.03(3), 4.02, 4.08 and 5.01. Although no effective date is included with this January 16th filing the rule could not have become effective prior to thirty days or on Feb. 15, 1980.

The rule was amended by an emergency rule filed on December 14, 1982. On March 28, 1983 this rule was again amended by an emergency rule. This second emergency amendment was valid for 180 days or until September 24, 1983. At that time the second emergency amendment expired due to the department not continuing the rule making process. This resulted in the old rule (January 16, 1980 filing) returning into effect.

This rule was again amended by an emergency rule filed on May 21, 1986. This filing is still in effect as of this date.

A handwritten signature in cursive script, appearing to read "Rich O. Hartman".

*Rich O. Hartman, Dir
Admin. Law Div.*

WEST VIRGINIA LEGISLATURE
Legislative Rule-Making Review Committee

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January 16, 1980

Hon. A. James Manchin
Secretary of State
W-151 State Capitol
Charleston, West Virginia 25305

Dear Mr. Manchin:

This is notification of approval of rules and regulations in accordance with Section 11, Article 3, Chapter 29A of the West Virginia Code.

On January 15, 1980, the Legislative Rule-Making Review Committee approved the following regulations:

- (a) Department of Health - Methadone Use Program; and
- (b) State Tax Department - Series III-IV to implement §11-15-11.

The rules of the Department of Mines relating to Certification of Coal Mine Electricians in West Virginia were approved except for the following sections upon which no action has been taken: §§3.01(3), 4.02, 4.08 and §5.01.

A copy of the approved regulations is enclosed.

FILED IN THE OFFICE OF
SECRETARY OF STATE OF
WEST VIRGINIA

THIS DATE 1-16-80

Very truly yours,

Robert M. Steptoe

Robert M. Steptoe

William E. Shingleton

William E. Shingleton

Enclosures

WEST VIRGINIA ADMINISTRATIVE REGULATIONS

DEPARTMENT OF MINES

CHAPTER 22-4

SERIES 14

(1979)

SUBJECT: RULES AND REGULATIONS GOVERNING THE STANDARDS FOR CERTIFICATION
OF COAL MINE ELECTRICIANS IN WEST VIRGINIA

FILED IN THE OFFICE OF
SECRETARY OF STATE OF
WEST VIRGINIA

THIS DATE 1-16-80

November 26, 1979

WEST VIRGINIA ADMINISTRATIVE REGULATIONS

DEPARTMENT OF MINES

CHAPTER 22-4

SERIES 14

SUBJECT: RULES AND REGULATIONS GOVERNING THE STANDARDS FOR CERTIFICATION
OF COAL MINE ELECTRICIANS IN WEST VIRGINIA

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WEST VIRGINIA ADMINISTRATIVE REGULATIONS

DEPARTMENT OF MINES

CHAPTER 22-4

SERIES 14

SUBJECT: Rules and Regulations Governing the Standards for Certification of Coal Mine Electricians in West Virginia

Section 1. General

1.01 Scope - These Rules and Regulations pertain to the certification of Underground and Surface coal mine electricians by the Department of Mines.

1.02 Authority - These Rules and Regulations are issued under authority of West Virginia Code, Chapter 22, Article 6-A, Section 6, as amended, in accordance with the provisions of Chapter 29-A, Article 3 of the West Virginia Code.

1.03 Effective Date - These Rules and Regulations meet the requirements of Chapter 29-A, Code of West Virginia, as amended, are promulgated on the _____ day of _____, 1979, and become effective on _____ day of _____, 1980.

1.04 Filing Date - These Rules and Regulations were filed in the Office of the Secretary of State on _____.

1.05 Certification - These Rules and Regulations are certified authentic by the Director of the Department of Mines.

Section 2. Definitions

2.01 Electrical Work - The term "electrical work" shall mean work consisting primarily of electrical construction, installation, testing, inspection, maintenance and repair tasks on electrical coal mining equipment, apparatus, circuits, and/or distribution circuits used in or around a coal mine.

2.02 Work Area - The term "work area" shall mean the area of a mine where electrical work is being performed but not to exceed 500 feet in any direction.

2.03 Certified Electrician - The term "certified electrician" shall mean any person who is qualified as a mine electrician and who has passed an examination given by the Department of Mines, or who has at least three year of experience in performing electrical work underground in a coal mine, in a noncoal mine, in the mine equipment manufacturing industry, or in any other industry using or manufacturing similar equipment, and has satisfactorily completed a coal mine electrical training program approved by the Department of Mines. (Refer to 22-1-1.)

2.04 Direct Supervision - The term "direct supervision" shall mean instructing, advising, and consulting with an employee performing electrical work. Direct supervision shall apply to a certified electrician under whose supervision an apprentice electrician is performing electrical work. All electrical work performed by an apprentice electrician must be examined by a certified electrician before the circuits or equipment are returned to service. The certified electrician supervising the apprentice electrician shall be physically present in the same work area. Testing or troubleshooting for electrical problems on energized electrical circuits may be performed by an apprentice electrician under the immediate supervision of a certified electrician.

2.05 Immediate Supervision - The term "immediate supervision" shall mean the presence of a certified electrician who will be with the apprentice electrician performing troubleshooting or testing on energized electrical equipment or circuits when equipment or circuits are energized.

2.06 Certified Person - The term "certified person" when used to designate the kind of person to whom the performance of duty in connection with the operation of a mine shall be assigned, shall mean a person who is qualified under the provisions of the law to perform such duty. (Refer to 22-1-1.)

2.07 Qualified Person - The term "qualified person" shall mean a person who has completed an examination and is considered qualified on record by the Department of Mines. (Refer to 22-1-1)

2.08 Approved - The term "approved" shall mean in strict compliance with mining law, or in the absence of law, accepted by a recognized standardizing body or organization whose approval is generally recognized as authoritative on the subject. (Refer to 22-1-1.)

2.09 Apprentice Electrician - The term "apprentice electrician" shall mean an individual who is the holder of an apprentice electrician's card and is in training to perform maintenance work on electrical circuits or electrically operated equipment. Such individuals shall be issued an apprentice electrician's card by the West Virginia Department of Mines upon verification by the employer that such individual will begin training as required in Section 7.02 of these Regulations. Prior to the issuance of an apprentice electrician's card such individual shall attend an eight (8) hour classroom training course in the hazards of electricity.

2.10 Certification Examinations - The term "certification examinations" shall mean all examinations in the categories within these Regulations which have been approved by the Board of Miner Training, Education and Certification and administered by the Department of Mines.

Section 3. Categories of Electrical Certification

3.01 Categories of Certification - After the effective date of these Rules and Regulations, electrical certification shall be in the following categories:

- (1) Electrician (Low, medium, and high voltage)
- (2) Electrician (Low and medium voltage)
- (3) Wireman

Apprentice electricians may become certified electricians in any or all of the above categories by the methods of certification provided in Section 4 of these Rules and Regulations.

Section 4. Levels of Certification

4.01 Apprentice Electrician - A person becoming an apprentice electrician to be trained to perform work on electrical circuits or electrically operated equipment shall be issued an apprentice electrician's card by the West Virginia Department of Mines upon verification by the employer that the individual is to be trained under an approved program for the next twelve (12) months. Such training programs shall consist of the following:

(a) During the twelve (12) months training period the apprentice electrician shall complete a minimum of 40 hour classroom training concerning subjects of:

- (1) State and Federal mining laws which apply to electricity
- (2) Permissibility
- (3) AC and DC Theory
- (4) Basic Electricity
- (5) Schematic Reading
- (6) Gas Detection and Fire Prevention
- (7) National Electric Code

(b) Not less than twenty percent of the twelve (12) month training period shall be directly involved with electrical work.

(c) All types of training experience shall be logged and kept by the operator specifically for apprentice experience, with the operator and apprentice both validating the experience by signatures. Records verifying apprentice's electrical experience shall be presented to the Department of Mines prior to electrical certification.

(d) All electrical work performed by an apprentice electrician shall be under the direct supervision of a certified electrician in accordance with the provisions of 2.04, and the electrical work performed by the apprentice electrician shall be examined by a certified electrician before the circuits or equipment are returned to service.

4.02 Wireman - A person may be certified as a wireman when such person has attended at least eight (8) hours of classroom training; such training shall be approved by the West Virginia Department of Mines. Such person shall have completed 60 days on the job training as a wireman under the supervision of a certified wireman, or certified electrician and shall have satisfactorily passed a certification examination. (Verification of such required training shall be submitted to the Department of Mines prior to certification.) A certified wireman may install, maintain and repair energized and de-energized trolley and trolley feeder wire.

4.03 Electrician (Low, medium voltage.) - A person may become certified as a low, and medium voltage electrician when such person has at least twelve (12) months of experience in performing electrical work as an apprentice with low, and medium voltage and has satisfactorily passed a certification examination.

(Note: Low and medium certified electricians are permitted to perform the duties of a certified wireman.)

4.04 Electrician (Low, Medium, and High Voltage.) - A person may become certified as a low, medium, and high voltage electrician when such person has at least twelve (12) months experience in performing electrical work as an apprentice, has worked with low, medium and high voltage, and has satisfactorily passed a certification examination.

(Note: The low, medium, and high voltage certified electrician are permitted to perform all other types of electrical work at any mining operation.)

4.05 Low and Medium Voltage to Low, Medium and High Voltage Electrician

A person certified as a low and medium voltage electrician shall have four (4) months experience in performing high voltage work, and shall satisfactorily pass that portion of the electrical certification examination devoted to high voltage. During the period of time the low and medium voltage electrician is working on high voltage he shall work under the direct supervision of a certified low, medium and high voltage electrician. The high voltage electrical work performed by the low and medium voltage electrician shall be examined by a certified low, medium and high voltage electrician before the circuits or equipment are returned to service.

The high voltage electrical experience of the low and medium voltage electrician shall be logged by the operator in a record book specifically for that purpose during the four (4) months training period.

4.06 Degree in Electrical Engineering - A person who has a Bachelor's Degree or Associate Degree in electrical engineering from an accredited college or university, and has at least six (6) months experience in performing electrical work under the supervision of a certified electrician may be permitted to become certified as an electrician (low, medium, and high

voltage, or low and medium voltage) when such person has satisfactorily passed a certification examination for such category.

4.07 Electrical Training Programs Already in Effect - Any person in training to become certified as an electrician prior to the effective date of these Rules and Regulations, shall be allowed to continue training and become certified as an electrician after the completion of one years experience in performing electrical work under the supervision of a certified electrician and after successful passage (at least 80% score) of the certification examination.

Any person starting training to become a certified electrician on or after the effective date of these Rules and Regulations shall comply with these Rules and Regulations.

4.08 Certification for Experienced Wireman - A wireman having six (6) months experience of maintaining, installing and repairing trolley wire prior to the effective date of these Rules and Regulations shall receive certification as a certified wireman. Verification of prior experience shall be submitted to the Department of Mines on a form prescribed by the Director of the Department of Mines.

4.09 Prior Certification - All valid electrical certifications issued by the Department of Mines prior to the effective date of these Regulations shall remain valid.

Section 5 Examinations

5.01 Wireman Examination - Examination for wireman certification will consist of four parts:

- (a) Direct current theory and application
- (b) Legal requirements - State and Federal law

- (c) Repair of energized trolley and feeder wire
- (d) Protective clothing

5.02 Electrical Examination for Low and Medium Voltage - Examinations for low and medium voltage electrician certification shall consist of six parts:

- (a) Direct current theory and application
- (b) Alternating current theory and application
- (c) Electric equipment and circuits
- (d) Permissibility of electric equipment
- (e) Legal requirements - State and Federal law
- (f) National electric code

A score of at least 80 percent of each part is required for successful passage of the examination. An individual who fails to achieve a passing score may apply to retake the examination by filing an application for examination in accordance with provisions of Section 5 of these Rules and Regulations after the expiration of fifteen days from the day such individual received notification of his score.

5.03 Electrician Examinations for Low, Medium, and High Voltage - Examinations for low, medium, and high voltage electricians certification shall consist of seven parts:

- (a) Direct current theory and application
- (b) Alternating current theory and application
- (c) Electric equipment and circuits
- (d) Permissibility of electric equipment
- (e) Legal requirements - State and Federal laws
- (f) National electric code
- (g) Dangers of high voltage

A score of not less than 80 percent of each part is required for successful passage of the examination. An individual who fails to achieve a passing score may apply to retake the examination by filing an application for examination in accordance with the provisions of Section 5 of these Regulations after the expiration of fifteen days from the day such individual received notification of his score.

Section 6 Certification Procedures

6.01 Application for Certification - Prior to taking an examination for certification in any of the categories listed in 3.01 of these Regulations, an individual must submit an application to take such examination in the form provided in Appendix A of these Regulations. Such application must be received by the Department of Mines at least fifteen days prior to the examination which the applicant has applied to take.

Upon receipt of an application for examination, the Department of Mines shall provide for the applicant to be examined at the next regularly scheduled examination which is at least fifteen days from receipt of the application and shall inform the applicant of the time and place for such examination. Within fifteen days after completion of an examination, the Department of Mines shall inform the applicant of his score upon the examination.

6.02 Certification - Upon determination that an application for certification has satisfactorily passed an examination for certification in any category listed in 3.01 of these Regulations and has presented proper documented electrical experience, the Department of Mines shall promptly issue to such individual in certificate indicating that he has been certified in the particular category for which he has applied.

6.03 Effect of Certification - No person shall perform electrical work of any type (a) until such person has become a certified electrician to perform such work or (b) unless such work is performed by an apprentice electrician under the direct supervision of a certified electrician. This provision does not prohibit a person already being trained prior to the effective date of these Rules and Regulations for continuing to perform electrical work under the direct supervision of a certified electrician until he has met the experience requirements. (See Section 4)

Section 7 Requirements for Apprentice Electrical Training Program

7.01 Apprentice Electrician Card - To be issued by the West Virginia Department of Mines when applied for by the miner with a statement from the mine operator stating that the miner will be in an electrical training program for the next twelve (12) months. The Apprentice Electricians Card will be issued for twelve (12) months and may be extended for valid reasons by the Department of Mines.

7.02 Approved Electrical Training Program - A minimum of 40 hours of classroom training covering the following subjects:

- (1) State and Federal laws which apply to electricity
- (2) Permissibility
- (3) AC and DC theory
- (4) Basic electricity
- (5) Schematic reading
- (6) Gas detection

The twelve (12) month training will include electrical and mechanically related work with 20 percent of the twelve (12) months being directly involved with electrical work. (Note: 12 month training is at least 80 percent of all regularly scheduled days in 12 months.)

Section 8 Annual Training

8.01 Electrical Retraining - In order to maintain electrical certification an individual must annually complete an approved eight (8) hour refresher course. The course will include but not be limited to permissibility, state and federal law, safety in job performance and training on equipment applicable to the card holders work. A minimum of eight (8) hours of refresher training will be required regardless of the number of cards held. Wiremen are not required to complete annual electrical retraining.

8.02 Failure to Maintain Electrical Certification - An individual who fails to attend the required refresher training annually will be required to repeat the electrical certification examination. Upon scoring at least 80 percent on each subject, the individual will be issued a new electrical certification card.

This provision does not apply to an individual who was off work for valid reasons at the time the refresher training was made available. The individual must, however, complete eight (8) hours of refresher training within ninety days after returning to work.



State of West Virginia

Department of Mines

Charleston 25305

WALTER N. MILLER
DIRECTOR

EDWARD JARVIS
DEPUTY DIRECTOR

OFFICIAL ELECTRICAL EXPERIENCE DOCUMENT

SOCIAL SECURITY NUMBER

DATE

has

NAME AND ADDRESS (Please Print)

worked under the direct supervision of a certified electrician for a period of not less than twelve (12) months with the _____ Coal
Company Mine Number or Name _____ or

holds a bachelor's degree or associate degree in electrical engineering and has worked under direct supervision of a certified electrician for a period of not less than six (6) months.

(An Accredited Electrical Engineering School)

Signature of Examiner

Signature of Company Official

- Card Applying for () Electrician - All Voltages
- () Electrician - Low and Medium Voltages
- () Wireman

ELECTRICAL EXPERIENCE

I hereby certify that the above named applicant has satisfactorily demonstrated sufficient knowledge in the areas applicable to _____ certification.

Signature of Certified Electrician & Cert. #

Applicant's Signature & Miners Cert. #

*22-1-20(D) - Whoever knowingly makes any false statements, representation, or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to this law or any order or decision issued under this shall be guilty of a misdemeanor, and upon conviction thereof, shall be fined not more than \$5,000.00 or imprisoned in the county jail not more than six (6) months; or both fined and imprisoned.

