

General Drilling Inc. & KY General Drilling, Inc.
MSHA Contractor # Y-68
30 CFR Part 46
New Miner Training (46.5)

Each new miner must receive no less than **24 hours** of training. Miners who have not received the full **24 hours** of new miner training must work under the observation of an experienced miner [Section 46.5(a)].

Instructions in the statutory rights of miners and their representatives 46.5(b)(5)

Course Length: 3 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman, and/or David W. Keil

The purpose of this training is to inform the miner of his/her rights under the Federal Mine Health and Safety Act of 1977.

Training Materials:

Federal Mine Safety and Health Act of 1977 ("the Act")
MSHA-produced booklet, "A Guide to Miners' Rights and Responsibilities Under the Federal Mine Safety and Health Act of 1977" (Revised 1999), (OT-2)
"Colorado School of Mines Part 46 Training," CD-ROM

Training Methods: Lecture, Handouts and Computer Aided Training

Overview:

The Act gives individual miners and their representatives the following rights:

- The right to have a representative of the miners accompany Federal inspectors during inspections at a mine.
- The right to obtain an inspection of a mine when there are reasonable grounds to believe that an imminent danger, or a violation of the Act or a safety, or health standard, exists.
- The right to be paid during certain periods of time when a mine or a part of a mine has been closed because of a withdrawal order.
- The right to be protected from discrimination based on the exercise of rights given by the Act.
- The right to receive safety and health training.
- The right to be informed of, and to participate in, enforcement and legal proceedings under the Act.

Discuss any questions on any of the rights the miners have.

Evaluation: A ten question true and false test taken on computer. After he tests, discuss any questions the miners may still have and any that may have been answered incorrectly.

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A review and description of the line of authority of supervisors and miners' representatives and the responsibilities of such supervisors and miners' representatives 46.5(b)(6).

Course length: 2 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman and/or David W. Keil

The purpose of this course is to acquaint newly hired miners with the chain of command, the persons who may represent them for purposes of the Mine Act, and their respective responsibilities. This knowledge is critical for the miner's correct response to instructions and/or warnings and the exercise of their rights under the Mine Act.

Training Materials:

Company organizational chart
IMAA Membership Directory
Kentucky Crushed Stone Association Membership Directory

Training Methods: Lecture and Handouts

Overview:

Bill Boatman - Immediate Supervisor

Responsibilities include:

- Daily reporting
- Scheduling
- Handles safety concerns

Catharine Diehr - Controller

Responsibilities include:

- Human Resource problems and questions
- Daily reporting and scheduling

Bill Kendall - Miner's Representative

Responsibilities include:

- Handles safety concerns
- Handles MSHA rules and regulations

Matt Boatman - Shop Supervisor

Responsibilities include:

- Handles safety concerns
- Parts and maintenance issues

Don Tolbert - Purchasing Agent

Responsibilities include:

- Parts and maintenance issues

Individual Quarry Superintendent

- Report safety issues
- Report drilling and shot issues

Introduce the miner to each respective supervisor and his/her responsibilities.

Evaluation: Have the miner name each supervisor and give a brief description of his/her responsibilities.

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Health and safety aspects of the task assigned 46.5(b)(4).

Course Length: 4 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman and/or David W. Keil

The purpose of this training is to identify safe work procedures for each major step of the miner's assigned job tasks.

Training Materials:

- MSHA audiovisual
- MSHA slides
- Driltech manufacturers booklet
- 30 CFR Part 56
- Appropriate standard operating procedures
- "Colorado School of Mines Part 46 Training," CD-ROM

Training Methods: Lecture, Overheads, Handouts, Computer Aided Training and an On-Site Tour

Overview:

Each job step will be demonstrated in the order they are to be performed. The necessity, results and potential consequences of each step will be explained as each step is performed. Then the ways the miner can be injured will be identified as well as the ways to avoid being injured while performing each job step.

Example:

The miner has been assigned to a truck mounted drill rig.

The first step is to do an examination of the work area.

- Check the highwall and the ground for any hazards.
- Check the ledge from the top and bottom of the highwall.

The second step is to do an examination of the drill rig.

- Check all fluids and make sure they are full.
- Check all guards and safety chains.
- Check all fire extinguishers.
- Check all hoses for leaks or defects.
- Check parking brakes.
- Check all lights.
- Check back-up alarm.

Have miner ask questions at any point or repeat steps if necessary.

Evaluation: Have the miner demonstrate and explain each step to the instructor.

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Recognition and avoidance of hazards 46.5(b)(2)

Course length: 3 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman and/or David W. Keil

The purpose of this course is to train the miner to recognize potentially hazardous locations, conditions or procedures. Once a potentially hazardous location, condition or procedure is identified, discuss or demonstrate how to avoid the hazard.

Training Materials:

- Company safety rules
- Company accident reports
- MSHA audiovisual "Safety Around Power Lines"
- MSHA Hazard Recognition Pamphlet
- MSHA Health Hazard Information Cards
- MSHA Fatal Grams
- MSHA Dust Control in Open Pit Mining
- MSHA Audiovisual "Ground Control in Surface Mining"
- "Colorado School of Mines Part 46 Training," CD-ROM

Training Methods: Lecture, Videos and Computer Aided Training

Overview:

Potential hazards should be considered both:

- Hazardous to the miner and
- Hazardous to others by the miner's actions.

Discuss the difference and examples of different kinds of hazards, such as:

- Moving vehicles
- Exposed "pinch points" and rotating mechanical parts
- Releases of energy, such as compresses gas, hydraulic lines, energized components and explosives
- Environmental hazards, such as dust, cracks, mud seams, high places, slippery areas, welding areas, overhead power lines, etc.
- Lifting hazards
- Slips and falls
- Noise
- Back-up alarms

Evaluation: Have the miner identify any potential hazards at a work site. Discuss these ideas with the miner and how the miner could avoid being hurt by them.

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Introduction to the work environment 46.5(b)(1).

Course Length: 3 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman and/or David W. Keil

Training Materials:

On Site Training
Hands On Training

Training Methods: Lecture, Hands On Training and On Site Training

Overview:

The object of the introduction is to familiarize the miner with the mine site by explaining and observing the mining process. Vocabulary for machines, processes and locations will be identified as the whole drilling process is explained. Restricted areas and areas where particular caution is necessary will be identified.

- The company works in conjunction with both the explosive company and the quarry to provide aggregate for the mining operation by drilling blast holes.
- The hole is then loaded with a blasting agent according to the quarry specifications.
- The rock is then blasted down so the quarry can mine it.
- The miner should never enter a blasting area until the "all clear" is given by either an air horn, hand signals or the quarry foreman.

Point out restricted areas and general hazards associated with each step of the drilling operation.

Evaluation: Ask the miner to summarize what he/she has seen at each of the major process areas. Have the miner indicate machines, processes, locations, controls, etc. Answer any questions the miner may have.

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A review of emergency medical procedures, escape and evacuation plans, fire warning signals, and firefighting procedures 46.5(b)(3).

Course Length: 3 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman and/or David W. Keil

The purpose of this training is to train the miner in appropriate steps to take in the event of fire or other emergency that would require the miner to leave the mine or affected area of the mine.

Training Materials:

Company mine emergency and evacuation plan
Fire extinguisher
MSHA-produced video, "Fire Extinguishers," VC 879
MSHA-produced video, "Fire Fighting in the Mineral Industry" VC 827
MSHA-produced safety manual, "Fire Safety," SM 13
"Colorado School of Mines Part 46 Training,": CD-ROM

Training Methods: Lecture, Videos and Computer Aided Training

Overview:

Point out the locations of fire extinguishers. Use an extinguisher to point out restraining pin, operating handle and nozzle operation.

- If a miner is hurt on the job, the miner should first seek medical attention in an emergency situation. Then he/she should tell someone at the mine location and/or the office. In a non-emergency situation, the injury should first be reported to the mine location and/or the office then seek medical attention, even if it is not necessary.
- If a fire or excessive smoke is spotted, the miner should check to see if anyone is hurt. If the fire is small enough, a fire extinguisher can be used to put it out. Then it should be reported to the quarry foreman or have someone else to report it. A miner should never try to put out a large fire. It should be reported and the quarry will handle it.
- If the fire is an electrical fire, the miner should try to disconnect or turn off the power source before attempting to put out the fire. Water should never be used on an electrical fire. If the fire is too large to be put out by the miner, he/she should call the fire department and the quarry superintendent.
- The miner must obtain the fire or emergency signal(s) for the mine he/she will be working at that day. If the signal(s) is seen or heard, the miner should shut the drill rig down and go to the designated area.

Evaluation: Have the miner explain or demonstrate the correct procedures for reporting, fighting, and escaping a fire. Also have him/her indicate the locations of fire extinguishers and describe the correct initiation and use of a fire extinguisher. Answer any questions the miners have on procedures.

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Introduction to company rules and procedures for reporting hazards 46.5(b)(7).

Course Length: 4 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman and/or David W. Keil

The purpose of this course is to ensure that the miner knows how to report hazards he/she may encounter while working at the mine.

Training Materials:

Copy of the mine reporting and safety procedures.
30 CFR Part 50
Ivy Tech audiovisual
Company safety rules
"Colorado School of Mines Part 46 Training," CD-ROM

Training Methods: Lecture, Handouts, Videos and Computer Aided Training

Overview:

If the miner should become aware of a potential hazard while working, the following steps should be performed immediately:

1. The rig should be shut down and moved to a safe area, if possible.
2. Everyone should move out of the endangered area.
3. The problem should be reported to the quarry foreman or superintendent.
4. The problem should then be reported to the General Drilling office.
5. The hazardous area should not be reentered until the problem has been solved.
6. If someone is injured, assistance should be given until medical help arrives.

Evaluation: Have the miner repeat or list the steps to reporting a hazard. Answer any questions the miner has regarding these steps.

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The following courses will be presented no later than 60 days after the new miner or newly hired/experienced miner begins work at the mine.

Instruction and demonstration on the use, care and maintenance of self-rescue and respiratory devices used at the mine 46.5(c)(1).

Course Length: 2 hours

Competent Instructor: William T. Kendall, Matthew B. Boatman and/or David W. Keil

The purpose of this training is to prepare the miner to use the appropriate self-rescue or respiratory device in an emergency or health hazard situation.

Training Materials:

MSHA and/or manufacturers' manuals for the appropriate self-rescue or respiratory device used in an emergency or health hazard situation.
"Colorado School of Mines Part 46 Training," CD-ROM

Training Methods: Lecture, Handouts and Computer Aided Training

Overview:

When the miner is working in a dusty area, a **Pyramax** type **N95** respiratory device is to be worn. The unit is properly put on by placing the straps over one hand and placing the mask over the nose. Then put the straps around the head and draw the straps tight. Then place hands on each side of the nosepiece and breathe in through the nose to seal the mask.

Evaluation: Have each miner explain when each device is to be used. Then have the miner demonstrate the proper method for putting the unit on and adjusting the unit for fit.

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Instruction in First Aid and CPR

Course Length: 4 - 6 hours

Competent Instructor: American Red Cross Certified Trainers

The purpose of this training is to teach basic first aid skills in dealing with injuries and also annual re-certification in cardio-pulmonary resuscitation (CPR).

Training Materials:

- Videos
- Handouts
- Demonstrations
- Hands-On Participation

Training Methods:

Lecture, Handouts, Demonstrations and Hands On Participation

Evaluation: Discuss any questions the miners have concerning first aid and CPR. A multiple-choice test is given for first aid and CPR.