

# East Region Norton District Stakeholder's Meeting

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Since January 1, 2022, twelve miners have lost their lives due to accidents that occurred at our mines. Six occurred underground and Six occurred on the surface.

Accident Classification	Underground	Surface
Fall/Slide Material		1
Fall of Face/Rib/Highwall	1	
Fall of Roof or Back	2	
Powered Haulage	1	2
Machinery	2	1
Slip/Fall of Person		1

Please note that Powered Haulage and Machinery account for six of the twelve fatal accidents for 2022. One accident was classified as other.

# January 7, 2022

- Accident Classification: Machinery
- Mine Type: nderground Coal
- Job Title: Continuous Miner Machine Operator
- Experience: 9 years 8 weeks
- Summary: *A continuous mining machine operator died when he was pinned between the continuous mining machine and a coal rib.*

# January 7, 2022

- Accident Classification: Fall of Roof or Back
- Mine Type: nderground MNM
- Job Title: Loader Operator
- Experience: 15 years 27 weeks 6 days
- Summary: *A miner was killed when a large portion of the roof collapsed on the front-end loader he was operating.*

# January 11, 2022

- Accident Classification: Falling, Rolling or Sliding Rock/Material
- Mine Type: Surface Coal
- Job Title: Blaster and Equipment Operator
- Experience: 11 ears
- Summary: *A large tree fell from a highwall striking the cab of a pick-up truck, resulting in a fatal injury to the truck driver and a serious injury to the passenger.*

# January 14, 2022

- Accident Classification: Slip or Fall of Person
- Mine Type: Underground Coal
- Job Title: Laborer
- Experience: 13 years 4 Weeks 1 Days
- Summary: While replacing a belt conveyor roller inside a preparation plant, a contractor fell approximately 27 feet onto a concrete floor.

# January 26, 2022

- Accident Classification: Powered Haulage
- Mine Type: Surface MNM
- Job Title: Front End Loader Operator
- Experience: 2 years 39 Weeks
- Summary: *A front end loader operator went under a dump truck to resolve a park brake issue and was fatally injured when the tire of the dump truck rolled onto him.*



# January 28, 2022

- Accident Classification: Powered Haulage
- Mine Type: Surface MNM
- Job Title: Truck Driver
- Experience: Three years 8 Weeks
- Summary: A Concrete Mixer Driver was fatally injured when the truck he was operating overturned, and he was ejected from the truck. Another miner, who was in the truck, suffered serious injuries.

# February 14, 2022

- Accident Classification: Powered Haulage
- Mine Type: nderground MNM
- Job Title: Maintenance
- Experience: 10 ears 12 Weeks
- Summary: *A miner died when the lube truck she was driving fell approximately 60 feet down a stope to the mine floor below.*

# February 28, 2022

- Accident Classification: Machinery
- Mine Type: nderground Coal
- Job Title: Project Manager
- Experience: 20 ears
- Summary: *A contract miner was tramming a single boom face drill to the surface when he became pinned between the drill and the coal rib.*

# March 2, 2022

- Accident Classification: Fall of Face, Rib, Pillar or Highwall
- Mine Type: nderground Coal
- Job Title: Scoop Operator
- Experience: 15 ears
- Summary: *A miner was fatally injured when a piece of rock from a brow along the mine rib fell and struck him.*

# March 4, 2022

- Accident Classification: Machinery
- Mine Type: Surface MNM
- Job Title: Bulldozer Operator
- Experience: 8 years 3 Weeks
- Summary: *A miner was fatally injured when the bulldozer he was operating rolled down a steep slope and came to rest on the cab.*

# March 20, 2022

- Accident Classification: Fall of Roof or Back
- Mine Type: nderground Coal
- Job Title: Roof Bolter
- Experience: 13 ears
- Summary: *A miner died when the roof fell in the area where he was moving a water line out by the retreat mining section.*

# March 22, 2022

- Accident Classification: Other Drowning
- Mine Type: Surface MNM
- Job Title:
- Experience:
- Summary:

# Machinery Best Practices Examples

Operate equipment from a safe location. Stay out of “Red zone” areas including pinch points, the CMM turning radius, and areas close to the ribs.

Maintain proximity detection systems (PDS) in the approved operating condition.

Perform the manufacturer’s recommended static and dynamic tests to assure the PDS is functioning properly. Verify that the shutdown zones are at sufficient distances to stop the CMM before contacting a miner.

Wear miner wearable components in accordance with PDS manufacturer’s recommendations so warning lights and sounds can be seen and heard.

Develop and implement procedures for tramming, repositioning, cable handling and moving remote controlled CMMs safely.

Train miners on the function of PDS.



# Powered Haulage Best Practices Examples

Immediately remove equipment from service when defects affecting safety are found.

Conduct adequate preoperational checks and weekly examinations of mobile electrical equipment. Correct any defects affecting safety before operating mobile equipment.

Maintain control and stay alert when operating mobile equipment.

Maintain roadways free of excessive water, mud, and other conditions that impact an equipment operator's ability to control mobile equipment.

Operate mobile equipment at speeds consistent with the conditions of roadways, grades, clearance, and visibility.

Never rely on Regenerative Braking as a substitute for keeping brakes properly maintained.

# Part 46 Training Plans

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# Purpose of this Presentation

Inform the Norton district mines that there is a Part 46 training plan template available from the MSHA district office to assist mine operators in the development of a part 46 training plan.

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# 3 Ways MSHA can assist operators in developing a Part 46 Training Plan

## Examples

<https://www.msha.gov/training-education/developing-training-plan>

This link includes a 67 page “Part 46 Training Plan Starter Kit” to develop a Part 46 training plan.

It is located under the “Training & Development” drop down menu, then click on “Developing a Training Plan.”

[https://www.msha.gov/sites/default/files/Training\\_Education/OT%2056%20-%20Parts%2046%20%26%2048%20Reference%20Guide.pdf](https://www.msha.gov/sites/default/files/Training_Education/OT%2056%20-%20Parts%2046%20%26%2048%20Reference%20Guide.pdf)

This link is to a 288 page training compliance guide that includes a training plan template beginning on page 215. It is very similar to the 67 page “starter kit” mentioned above.

**The easiest way to locate this is with a Google search for “MSHA Part 46 and Part 48 Compliance Guide.”**

The Norton District developed Part 46 Training Plan Template. Contact Jason Lane at [Lane.Jason@dol.gov](mailto:Lane.Jason@dol.gov)

The is a 20 page template that provides mine operator with a MS Word template that contains the topics that every Part 46 training plan must include in a format that can be easily modified and it includes sample training certificates.

# Part 48 verses Part 46

The 30 CFR Part 48 dictates the topics that must be covered in **New Miner Training, Experienced Miner Training, and Annual Refresher**. The operator has the discretion on the amount of time spend on the topics, but no discretion to independently add or remove topics. The District Manager must approve any additional topics in the approved training plan.

The 30 CFR Part 46 dictates the **9 topics** that must be covered in **New Miner Training**, but gives the operator latitude to add additional topics that promotes occupational health and safety.

The 30 CFR Part 46 dictates the **8 topics** that must be covered in **Experienced Miner Training**, but gives the operator latitude to add additional topics that promotes occupational health and safety.

The 30 CFR Part 46 gives full latitude to the operator on topics that are covered in **Annual Refresher Training**. Refresher training must include instruction on changes at the mine that could adversely affect the miner's health or safety. It must also address other health and safety subjects that are relevant to mining operations at the mine. The 30 CFR 46.8 does give recommendations for topics.

# **The Norton District's Part 46 Template**

# Part 46 Training Plan Instructions

All mining operations and each independent contractor who employs a miner must develop and implement a written training plan. The following pages provide a template for developing such a plan.

A training plan can be used for more than one mine. The plan must list all mine names and MSHA mine identification numbers and must cover all the appropriate training requirements, including Site-specific Hazard Awareness Training, at each mine listed on the plan.

A training plan is considered approved by MSHA if it contains, at a minimum, the following information:

1. The name of the production-operator or independent contractor, mine name(s), and MSHA mine identification number(s) or independent contractor identification number(s).

**(Complete the blanks on page 1.)**

2. The name and position of the person designated by the operator who is responsible for the health and safety training at the mine. This person may be the production-operator or independent contractor.

Some operators, particularly those that operate large facilities, may want the flexibility of having more than one person who can certify that training has been completed. These operators may list more than one person as being responsible for training.

**(Complete the blanks on page 1.)**

3. A list of the persons and/or organizations that will provide the training, and the subject areas in which each person and/or organization is competent to instruct. The training plan must include all “competent persons” who will instruct in all subjects, including the name of the person who will provide only one type of task training. It is acceptable to indicate the names of several potential instructors for one subject or course, where the operator may call on one of several competent persons to provide the training. While it is acceptable to list the organizations who will instruct on the training plan, the certificates of training must list the specific competent person’s name who provides the training.

**(Complete the table on page 1.)**

4. The evaluation procedures used to determine the effectiveness of training. Part 46 does not require a specific evaluation method. Instead the rule allows you to select the method that will best determine if training has been effective. Possible evaluation methods include administering written or oral tests, or a demonstration by the miner that he or she can perform all required duties or tasks in a safe and healthful manner. In addition, periodic work observations can be used to identify areas where additional training may be needed and such observations, along with feedback from the miners, could be used to modify and enhance the training program.

**(Evaluation methods are listed on pages 3 and 9. Please review and modify as necessary.)**



5. Section 46.5 lists the topics that must be covered in New Miner Training and the total hours. However, the mine operator has the responsibility to tailor the number of hours required for the individual topics.

**(Modify the New Miner Training times listed on page 4.)**

6. Section 46.6 lists the topics that must be covered in Newly Hired Experienced Miner Training. However, the mine operator has the responsibility to tailor the number of hours required for the individual topics.

**(Modify the Newly Hired Experienced Miner Training times listed on page 5.)**

7. Section 46.8 requires that annual refresher training include instruction on changes at the mine that could adversely affect the miners' health or safety. Section 46.8 includes an extensive list of recommended subjects for refresher training. The flexibility of the performance-based approach of Part 46 allows production-operators and independent contractors to determine the subjects to be covered in annual refresher training based on the needs of their workforce and their operations.

In the regulation, the section on annual refresher training lists recommended subjects that could be included in the training. **It is not acceptable to list all these subjects on the training plan and choose different subjects from year-to-year. The training plan needs to accurately represent each subject which you plan to cover during annual refresher training.**

**(Modify the annual refresher topics and times listed on page 6.)**

8. Section 46.7 requires the written training plan to list each task for which training will be conducted. The training plan must include a general description of the teaching methods, course materials, evaluation methods and competent person(s) who will conduct the training. Additionally, the plan must list the approximate time or range of time to be spent on each task training.

**(Modify the Task Training listing and times listed on page 8.)**

A plan may also be voluntarily submitted to one of the Regional Managers for approval. Two weeks prior to implementing a new or revised plan, a copy of the plan must be provided to the miners' representative, if any. At mines where no miners' representative has been designated, the plan must be posted or provided to each miner at least 2 weeks before you implement the plan or submit it to the Regional Manager for approval. If the competent person listed in the approved training plan cannot provide the training, and the training is scheduled within 2 weeks, the operator may substitute an unlisted competent person for the listed competent person without the 2 week advance notice, provided that the operator informs all miners to be trained and their representatives prior to substituting the competent person, and provided that no miners or their representatives object to the substitution.

**TRAINING PLAN**  
**for 30 C.F.R. Part 46**  
**SURFACE MINES**

\_\_\_\_\_  
Date

Eastern Regional Manager  
Educational Field Services  
National Mine Health and Safety Academy  
1301 Airport Road  
Beaver, WV 25813-9426

RE: Request for Approval, Proposed Part 46 Training Plan

\_\_\_\_\_  
(Company or Corporate Name)

\_\_\_\_\_  
(Name of Mine)

\_\_\_\_\_  
(MSHA ID No.)

Dear Regional EFS Manager:

The enclosed Part 46 Training Plan is hereby submitted for your approval. Should changes be needed, notify me at the following address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sincerely,

\_\_\_\_\_  
(Signature – Operator or an Agent of the Operator)

\_\_\_\_\_  
(Title)



# General Descriptions

TRAINING CONDUCTED BY: Training will be conducted by a mine-operator designated competent person. A competent person is one who has the ability, training, knowledge, and/or experience to provide training to miners in his or her area of expertise. The competent person must be able both to effectively communicate the training subject to miners and to evaluate whether the training given to miners is effective.

Training received by miners in Part 46 must be presented in a language they understand. In addition, if warning signs at the mine serve as a component of the Site-specific Hazard Awareness Training, the signs must be in a language or languages that are understood by the person(s) who come onto the mine site.

If a competent person is providing training to a group, and some individuals are not fluent in English, it is permissible to use a person who is not a competent person as a translator. When using a translator, the operator or contractor should ensure the translator has the ability to translate the information accurately and completely. Further, the translator should be familiar with the subject and terminology in the language being translated, not just in English.

TRAINING TYPE: The training type given will be based on the definition of a miner.

Miner: An individual who has gained 12 months of mining experience within 36 months. (A new miner who has less than 12 cumulative months of surface mining or equivalent experience and has completed new miner training under § 46.5 or under § 48.25 within 36 months before beginning work at the mine does not have to repeat new miner training. However, you must provide the miner with 4 hours of training specified in paragraph 46.5(b) before the miner begins work at the mine.)

Once a miner has received new miner training under Part 46 or Part 48 and has accumulated 12 months of mining experience within 36 months of receiving new miner training, MSHA considers that miner to be experienced for life for training purposes at all Part 46 mines.

New Miner Training will be given to individuals with no mining experience or those who have received New Miner Training but failed to gain 12 month's experience within 36 months.

Annual Refresher Training will be given to employed miners annually by the end of their "anniversary" month. There is no federal requirement for out-of-work miners to maintain their annual refresher training.

Experienced Miner Training will be given to miners newly employed at a mine. There is no requirement that the miner's annual refresher from their previous employer to be current.

Task Training will be given to any miner who is reassigned to a new task in which he or she has no previous work experience.

Site-specific Hazard Awareness Training will be given to any person who is not a miner as defined by §46.2 but is present at a mine site, including:

1. Office or staff personnel;
2. Scientific workers;
3. Delivery workers;

4. Customers, including commercial over-the-road truck drivers;
5. Construction workers or employees of independent contractors who are not miners under §46.2 of this part;
6. Maintenance or service workers who do not work at the mine site for frequent or extended periods; and
7. Vendors or visitors.

TRAINING ENVIRONMENTS: Training will be conducted in the field at the mine site and/or in a classroom location.

A portion, if not all, of Task, Hazard, and Experienced Miner training will be given in the field. Some parts of Task, Hazard, and Experienced Miner may be given in a classroom environment. Annual Refresher will be given in a classroom environment.

New Miner training will be a combination of classroom and field training.

TEACHING METHODS: Teaching methods will include any combination of lectures, discussions, questions and answer sessions, tours (when applicable), walk-around discussions, demonstrations, hands-on, observation periods, and testing (if deemed necessary).

Media used can include, but not limited to, TV/computer showing VHS, DVD, blue-ray; computer generated material showing PowerPoint presentations, digital photographs, online videos, and interactive presentations.

The teaching method and media used will be determined by the training environment and the needs of the trainees.

COURSE MATERIALS: Course materials may consist of any or all of the following, as applicable: Appropriate MSHA modules, or materials and information derived from them, mine equipment, apparatus, instruments, mine supplies, devices at the mine site, books, MSDS, manuals, hand tools, films, transparencies, slides, charts, checklists, training models, regulation manuals, company policies plans and rules, and training models of the same type(s) and model(s) of SCSR's in use at the mine, and other such materials.

The course materials used will be determined by the needs of the trainees based on prior education and/or experiences and the best materials for the needs of the trainees.

EVALUATION PROCEDURES: Miners will be observed during mock and actual performance, asked questions or given written exams covering all training topics, practical hands-on exams, and miner will perform applicable procedures properly, safely and efficiently in the presence of the competent person.

Where required, training in the use of self-rescue devices will include a demonstration and hands-on training of all rescue devices used at the mine or facility. This will include assuming a donning position, opening the device, activating the device, inserting the mouthpiece and putting on the nose clip and hands-on training in transferring from one self-rescue device to another self-rescue device.

# New Miner Training (§46.5)

Each New Miner will be provided a total of 24 hours of training, but it may be given in segments as prescribed in the table below. The training times are approximate, but total training must total to 4 hours before any work is done and 24 hours before the training is complete.

Miners that have not received the full 24 hours of new miner training must work where an experienced miner can closely observe that the new miner is performing his or her work in a safe and healthful manner.

**Before** a new miner begins work at the mine, they must receive no less than **4 hours** of training in the following subjects, which must also address site-specific hazards:

- (1) An introduction to the work environment, including a visit and tour of the mine, or portions of the mine that are representative of the entire mine (walk-around training). The method of mining or operation utilized must be explained and observed **(1 hour initial/8 hours total)**;
- (2) Instruction on the recognition and avoidance of electrical hazards and other hazards present at the mine, such as traffic patterns and control, mobile equipment (e.g., haul trucks and front-end loaders), and loose or unstable ground conditions **(30 minutes initial/2 hours total)**;
- (3) A review of the emergency medical procedures, escape and emergency evacuation plans, in effect at the mine, and instruction on the fire-warning signals and firefighting procedures **(30 minutes initial/2 hour total)**;
- (4) Instruction on the health and safety aspects of the tasks to be assigned, including the safe work procedures of such tasks, the mandatory health and safety standards pertinent to such tasks, information about the physical and health hazards of chemicals in the miner's work area, the protective measures a miner can take against these hazards, and the contents of the mine's HazCom program (Practice under the close observation of a competent person may be used to fulfill this section, if hazard recognition training specific to the assigned task is given before the miner performs the task.) **(1 hour initial/2 hours total)**;
- (5) Instruction on the statutory rights of miners and their representatives under the Act **(15 minutes initial/1 hour total)**;
- (6) A review and description of the line of authority of supervisors and miners' representatives and the responsibilities of such supervisors and miners' representatives **(15 minutes initial/1 hour total)**; and
- (7) An introduction to mine rules and procedures for reporting hazards **(30 minutes initial/1 hour total)**.

No later than **60 calendar days** after a New Miner begins work at the mine they must receive training in the following subjects:

- (1) Instruction and demonstration on the use, care, and maintenance of self-rescue and respiratory devices, if used at the mine **(1 hour)**; and
- (2) A review of first aid methods **(6 hours)**.

No later than **90 calendar days** after a New Miner begins work at the mine they must receive the balance, if any, of the 24 hours of training on any other subjects that promote occupational health and safety for miners at the mine.

## EXCEPTIONS TO NEW MINER TRAINING RERQUIREMENTS:

1. A new miner who has less than 12 cumulative months of surface mining or equivalent experience and has completed new miner training under §46.5 or under §48.25 within 36 months before beginning work at the mine does not have to repeat new miner training. However, they must be provided with training specified in §46.5(b) before the miner begins work at the mine.
2. A new miner training course completed under §48.5 or §48.25 may be used to satisfy the requirements of §46.5(a), (b), and (c), if the course was completed by the miner within 36 months before beginning work at the mine; and the course is relevant to the subjects specified §46.5(b) and (c).

# Newly Hired Experienced Miner Training (§46.6)

Newly hired Experienced Miners must be provided with training as prescribed in the table below.

The duration of the training needed by a newly hired experienced miner depends on the occupational experience of the miner, the work duties that the miner will perform, and the methods of mining and workplace conditions at the mine where the miner will be working. Except as explained at the bottom of the page, the seven subjects listed in the table must be covered before assigning the miner to work. The training times are given as a range.

**Before** a newly hired experienced miner begins work at the mine, they must receive training in the following subjects, which must also address site-specific hazards:

(1) An introduction to the work environment, including a visit and tour of the mine, or portions of the mine that are representative of the entire mine (walk-around training). The method of mining or operation utilized must be explained and observed **(30 minutes – 3.5 hours)**;

(2) Instruction on the recognition and avoidance of electrical hazards and other hazards present at the mine, such as traffic patterns and control, mobile equipment (e.g., haul trucks and front-end loaders), and loose or unstable ground conditions **(15 minutes – 1 hour)**;

(3) A review of the emergency medical procedures, escape and emergency evacuation plans, in effect at the mine, and instruction on the fire-warning signals and firefighting procedures **(15 minutes – 1 hour)**;

(4) Instruction on the health and safety aspects of the tasks to be assigned, including the safe work procedures of such tasks, the mandatory health and safety standards pertinent to such tasks, information about the physical and health hazards of chemicals in the miner's work area, the protective measures a miner can take against these hazards, and the contents of the mine's HazCom program (Practice under the close observation of a competent person may be used to fulfill this section, if hazard recognition training specific to the assigned task is given before the miner performs the task.) **(30 minutes – 1 hour)**;

(5) Instruction on the statutory rights of miners and their representatives under the Act **(5 minutes – 30 minutes)**;

(6) A review and description of the line of authority of supervisors and miners' representatives and the responsibilities of such supervisors and miners' representatives **(5 minutes – 30 minutes)**; and

(7) An introduction to your rules and procedures for reporting hazards **(5 minutes – 30 minutes)**.

No later than **60 calendar days** after a newly hired experienced miner begins work at the mine they must receive training and demonstration on the use, care, and maintenance of self-rescue and respiratory devices, if used at the mine **(1 hour)**.

ADDITIONAL TRAINING TOPICS: In addition to subjects specified in the table above, Experienced Miners may receive training on any other subjects that promote occupational health and safety for miners at this mine. Such subjects must be added to the list in the table above.

EXCEPTIONS TO EXPERIENCED MINER TRAINING RERQUIREMENTS: A newly hired Experienced Miner who returns to the same mine, following an absence of 12 months or less, is not required to be provided with the training specified in the table above. Instead they must be provided with training on any changes at the mine that occurred during the miner's absence that could adversely affect the miner's health or safety. This training must be given before the miner begins work at the mine. If the miner missed any part of annual refresher training under §46.8 during the absence, they must be provided the missed training no later than 90 calendar days after the miner begins work at the mine.



# Annual Refresher Training (§46.8)

Each miner will be provided with no less than 8 hours of annual refresher training:

1. No later than 12 months after the miner begins work at the mine; and
2. Thereafter, no later than 12 months after the previous annual refresher training was completed.

The refresher training must include instruction on changes at the mine that could adversely affect the miner's health or safety **(30 minutes)**. The training times are approximate, but training must total to 8 hours before the training is complete.

Refresher training must also address other health and safety subjects that are relevant to mining operations at the mine.

Recommended subjects include, but are not limited to:

1. Applicable health and safety requirements, including mandatory health and safety standards **(30 minutes)**
2. Information about the physical and health hazards of chemicals in the miner's work area, the protective measures a miner can take against these hazards, and the contents of the mine's HazCom program **(30 minutes)**
3. Transportation controls and communication systems **(30 minutes)**
4. Escape and emergency evacuation plans, fire-warning and firefighting **(30 minutes)**
5. Ground conditions and control; traffic patterns and control **(30 minutes)**
6. Working in areas of highwalls **(30 minutes)**
7. Water hazards, pits, and spoil banks **(30 minutes)**
8. Illumination and night work **(15 minutes)**
9. First aid **(1 hour)**
10. Electrical hazards **(15 minutes)**
11. Prevention of accidents **(30 minutes)**
12. Health **(30 minutes)**
13. Explosives **(30 minutes, if explosives are used)**
14. Respiratory devices **(30 minutes)**

Training is also recommended on the hazards associated with the equipment that has accounted for the most mining industry fatalities and serious injuries in use at this mine such as **(30 minutes)**:

1. Mobile equipment (haulage and service trucks, front-end loaders and tractors)
2. Conveyor systems
3. Cranes
4. Crushers
5. Excavators
6. Dredges

Other recommended subjects include **(30 minutes)**:

1. Maintenance and repair (use of hand tools and welding equipment)
2. Material handling
3. Fall prevention and protection
4. Working around moving objects (machine guarding)

The flexibility of the performance-based approach of Part 46 allows production-operators and independent contractors to determine the subjects to be covered in annual refresher training based on the needs of their workforce and their operations.

In §46.8 it lists recommended subjects that could be included in annual retraining. It is not acceptable to list all these subjects on the training plan and then choose different subjects from year-to-year. The training plan will need to be updated as training topics change to accurately represent each subject that is covered during annual refresher training.

## **New Task Training (§46.7)**

Any miner who is reassigned to a new task in which he or she has no previous work experience must be provided with training in the health and safety aspects of the task to be assigned, including the safe work procedures of such task, information about the physical and health hazards of chemicals in the miner's work area, the protective measures a miner can take against these hazards, and the contents of the mine's HAZCOM Program. This training must be provided before the miner performs the new task.

HAZCOM PROGRAM: Information about the physical and health hazards of chemicals in the miner's work area will be covered during training. Training will include: the protective measures a miner can take against these hazards, the proper use of Personal Protective Equipment (PPE), and the contents of the mine's HazCom program. Course material for this training can include MSHA training modules, company safety rules, and MSDSs used at the mine.

If a change occurs in a miner's assigned task that affects the health and safety risks encountered by the miner, training must be provided to the miner with training under §46.7 (a) that addresses the change.

Practice under the close observation of a competent person may be used to fulfill the requirement for task training under this section, if hazard recognition training specific to the assigned task is given before the miner performs the task.

Training provided under this section may be credited toward new miner training, as appropriate.

EXCEPTIONS TO TASK TRAINING REQUIREMENTS: New task training under §46.7(a) and (b) is not required to miners who have received training in a similar task or who have previous work experience in the task, and who can demonstrate the necessary skills to perform the task in a safe and healthful manner. To determine whether task training under this section is required, the miner must be observed performing the task in a safe and healthful manner.

## LISTING OF TASK TRAINING ASSIGNMENTS

SURFACE TASKS (Tasks/Equipment listed may be in other areas of the mine):

TASK DESCRIPTION	TASK TRAINING TIME
Front End Loader Operator	15 minutes – 2 hours
Bulldozer Operator	15 minutes – 2 hours
Excavator/Backhoe Operator	15 minutes – 2 hours
Shovel Operator	15 minutes – 3 hours
Refuse/Rock Truck Operator	15 minutes – 2 hours
Truck Driver	15 minutes – 2 hours
Road Grader Operator	15 minutes – 2 hours
Pan Scraper Operator	15 minutes – 2 hours
Utility/General Laborer	15 minutes – 1 hour
Mechanic/Repairman	15 minutes – 1 hour
Qualified Electrician	15 minutes – 4 hours
Welder	15 minutes – 2 hours
Skid Steer (Bobcat®) Operator	15 minutes – 1 hours
Fork Lift Operator	15 minutes – 2 hours
Telescopic Fork Lift (Sky Trak®) Operator	15 minutes – 2 hours
Scissor Lift/Man Lift Operator	15 minutes – 1 hours
Crane Operator	15 minutes – 6 hours
Tree Cutter	15 minutes – 1 hours
Dredge	15 minutes – 6 hours
Dragline	15 minutes – 6 hours

# **New Task Training (Continued)**

## **OUTLINE OF TASK TRAINING PROCEDURES**

TRAINING CONDUCTED BY: The mine operator will designate a competent person such as an equipment operator, foreman, or equipment manufacturer representative who is experienced in the assigned tasks.

TRAINING METHODS: Training will be conducted by of combination of discussion, demonstration, and hands-on instruction. **While training under close observation may be done in a production mode, emphasis should be placed on the training and not the production.**

### OUTLINE OF TRAINING PROCEDURES FOR INSTRUCTORS AND MINERS:

#### WHAT INSTRUCTOR WILL DO:

1. Discuss company safety rules, policies, and health aspects of the task.
2. Demonstrate each task of equipment operation to the miner.
3. Evaluate each task of equipment operation.
4. These tasks will be observed and evaluated with proper feedback and instructions given until the miner can perform such tasks in a safe and efficient manner.

#### WHAT MINER WILL DO:

1. Observe, learn and follow each step for equipment operation or task, and ask questions about unsure steps, procedures, or tasks.
2. Perform task in a productive status and successfully perform each task until the instructor is satisfied with the performance of the miner.

EVALUATION: The miner's training will not be completed until after an evaluation of the skill. At a minimum, the miner will do the following:

1. Correctly answers questions from instructor.
2. Successfully performs a simulated procedure.
3. Successfully performs the task under observation during production.

## **New Task Training (Continued)**

### **TASK TRAINING BROKEN DOWN BY TOPICS\***

HEALTH AND SAFETY ASPECTS OF THE TASKS: The training for each task will include instructing the miner on the health and safety aspects of the task.

Safety: An active mine is a dynamic environment with various mobile machines, constantly changing work conditions and machinery with moving parts. The miner will be instructed on situational awareness and hazard recognition in the work areas and the corrective actions necessary to eliminate or mitigate these hazards. The miner will be instructed on proper mining sequence to understand the movement of machines and other miners in the work area.

Health: The training will include the health hazards such as materials, dust, and chemicals associated with the task and how they affect the human body. The training will include how to avoid the hazards when possible and the necessary precautions and Personal Protective Equipment (PPE) needed to mitigate the risk when avoidance is not practicable. The Material Safety Data Sheets (MSDS) may be used in this training.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Task training will include details about the Personal Protective Equipment (PPE) necessary to minimize exposure to hazards while performing the task. All PPE should be safely designed and constructed, maintained in good condition, and it should fit comfortably. If the PPE does not fit properly, it can make the difference between being safely protected or dangerously exposed. Miners will be trained to identify the following:

1. When PPE is necessary
2. What kind of PPE is necessary
3. How to properly put PPE on, adjust, wear, and remove
4. The limitations of the equipment
5. The restrictions of the PPE (defined by the manufacturer)
6. Proper care, maintenance, useful life, and disposal of the PPE

EQUIPMENT INSPECTION: The miner will be instructed to make mechanical and general electrical safety checks on equipment as part of a pre-operation check. The miner will ensure that all moving parts operate properly and that all the safety functions operate properly. The following (as applicable) will be checked for safe operation:

Bits, conveyors, cabs/canopies, gathering arms, control levers, guards, fire suppression devices, clamps, conduits, panic bars, lights, cover plates, lids, fuel tank, tires, windshields, wipers, hydraulic oil, fuel levels, brakes, steering, blades, buckets, and booms, etc.

EQUIPMENT OPERATION: The miner will be instructed on safe operation of the machine. The machine's primary function (drilling, shooting, loading, hauling, etc.) will be covered with the miner.

EQUIPMENT MAINTENANCE: The miner will be instructed on the safe maintenance and repair of the equipment. Material handling; removal of material blockages; lubrication; refueling; cutting and welding; and clean-up will be covered with the miner. Part of the instruction will include the maintenance expectations for the miner verses repairs requiring a mechanic or electrician.

LOCK OUT/TAG OUT PROCEDURES: The miner will be instructed on the importance of Lock Out/Tag Out procedures before performing maintenance or repair. The miner will be capable of de-energizing, opening a visible electrical disconnect, locking out the electrical power (if necessary), and blocking the equipment against motion. The training will include that the removal of someone else's lock can only be done at the direction of a company official, and then, only after it was been conclusively determined that no one will be endangered.

The miner will be trained on the difference between mechanical and electrical work. Electrical work is installing, repairing, replacing, or maintaining electrical equipment, components, or conductors. Electrical work can only be done by an operator-designated electrician.

LIMITED TASK TRAINING OF MINERS: Limited task training of miners may be given when their duties on the equipment are restricted. For instance, miners who are electricians and/or mechanics may only need to operate of the equipment for repair and maintenance purposes, but they will be task trained for that restricted operation. **When any task training is limited, the training documented will state the restrictions.**

\*This is not intended to be a complete list of all the tasks that may be required for Task training. Any task a miner performs requires adequate task training to ensure safety before performing the task.

## **HAZARD TRAINING PROGRAM (§46.11)**

SITE-SPECIFIC HAZARD AWARENESS TRAINING: Site-specific hazard awareness training is information or instructions on the hazards a person could be exposed to while at the mine, as well as applicable emergency procedures. The training must address site-specific health and safety risks, such as unique geologic or environmental conditions, recognition and avoidance of hazards such as electrical and powered-haulage hazards, traffic patterns and control, and restricted areas; and warning and evacuation signals, evacuation and emergency procedures, or other special safety procedures.

TRAINING MATERIALS: Site-specific hazard awareness training will be given through the use of written hazard warnings, oral instruction, signs and posted warnings, walk-around training, or other appropriate means that alert persons to site-specific hazards at the mine.

HAZARD TRAINING FOR MINERS: Miners, such as drillers or blasters, who move from one mine to another mine while remaining employed by the same production-operator or independent contractor will be provided with site-specific hazard awareness training for each mine.

HAZARD TRAINING FOR VISITORS: Site-specific Hazard Awareness Training will be given to any person who is not a miner as defined by §46.2 but is present at a mine site, including:

1. Office or staff personnel;
2. Scientific workers;
3. Delivery workers;
4. Customers, including commercial over-the-road truck drivers;
5. Construction workers or employees of independent contractors who are not miners under §46.2 of this part;
6. Maintenance or service workers who do not work at the mine site for frequent or extended periods; and
7. Vendors or visitors.

EXCEPTIONS TO TASK TRAINING RERQUIREMENTS: Site-specific hazard awareness training is not required for any person who is accompanied at all times by an experienced miner who is familiar with hazards specific to the mine site.

## RECORDS OF TRAINING (§46.9)

REQUIRED INFORMATION ON TRAINING RECORDS: A training record or certificate may be maintained in any format, provided that it contains the information listed below. The record must include:

1. The printed full name of the person trained;
2. The type of training;
3. Duration of training;
4. The date the training was received;
5. The name of the competent person who provided the training (list all if more than one);
6. Name of mine or independent contractor;
7. MSHA mine identification or independent contractor number (if applicable); and
8. Location of training (if an institution, the name and address of institution)
9. The statement, “False certification is punishable under 110(a) and (f) of the Federal Mine Safety and Health Act,” printed in bold letter and in a conspicuous manner.
10. A statement signed by the person designated in the MSHA-approved training plan for the mine as responsible for health and safety training, that states “I certify that the above training has been completed.”
11. The signature of the person who has been designated by the operator or independent contractor as “Responsible for Health and Safety Training” that certifies the training has been completed.

CERTIFYING RECORDS: Certifying means verifying, by signature, that the training listed on the written record was completed as indicated on the form. Part 46 requires that this certification be done by the person who has been designated by the operator as responsible for health and safety training at the mine and whose name appears on the training plan. Certifying is required at the completion of training, such as at the end of the 24 hours of new miner training.

Training records must be certified at:

1. The completion of new miner training;
2. The completion of newly hired experienced miner training;
3. The completion of the 8 hours of annual refresher training;
4. Least once every 12 months for new task training or upon request by the miner; and
5. The completion of Site-specific Hazard Awareness Training for miners.

MAINTAINING TRAINING PLANS AND RECORDS: Operators and contractors must make available for inspection by MSHA and by miners and their representatives training plans, training records and certificates (46.9(g)). If the training plan, training records or certificates are not physically kept at the mine site, they must be “produced upon request;” such as by having them sent from another location via fax machine or computer. Training plans must be made available within one business day, but training records, and certificates with the signature of the person responsible for health and safety training must be made available before inspection activity at the mine concludes for the day.



When a miner leaves the operator's employ, each miner will be provided with a copy of his or her training records and certificates upon request.

Miner operators must maintain copies of training certificates and training records for each currently employed miner during his or her employment, except records and certificates of annual refresher training under § 46.8, which are maintained for two years. Copies of training certificates and training records must be maintained for at least 60 calendar days after a miner terminates employment.

TRAINING CERTIFICATES FOR PEOPLE WHO ARE NOT CONSIDERED MINERS: A record of training is not required for Site-specific Hazard Awareness Training for persons who are not miners under 46.2. However, operators must be able to provide evidence to us, upon request, that the training, when applicable, was provided. This evidence may include the training materials used, including appropriate warning signs, written information distributed to persons, or a visitor log book that reflects that Site-specific Hazard Awareness Training has been given.

# NEW MINER TRAINING RECORD/CERTIFICATE

**Miner's Full Name (Print)** \_\_\_\_\_

**Mine or Contractor Name** \_\_\_\_\_

**MSHA ID#** \_\_\_\_\_

Subject 30 CFR Part 46.5	Training Duration	Date	Competent Person	Location (Name & Address if Institution)	Miners Initials
<i>The miner received no less than 4 hours training in the following, before beginning work:</i>					
(b)(1) Introduction to work environment, mine tour, mining method/operation					
(b)(2) Instruction on recognition and avoidance of electrical and other hazards					
(b)(3) Emergency procedures, Escape, and firefighting					
(b)(4) Health and safety aspects of tasks assigned					
(b)(5) Instruction on statutory rights of miner and their representatives					
(b)(6) Authority & responsibility of supervisors and miners representatives					
(b)(7) Introduction to your rules and procedures for reporting hazards					
<i>No later than 60 days:</i>					
(c)(1) Self-rescue, respiratory devices, if used					
(c)(2) First aid					
<i>No later than 90 days (balance of 24 hours including the following subjects):</i>					

**False certification is punishable under section 110 (a) and (f) of the Federal Mine Safety and Health Act.**  
 I certify that the above training has been completed.

\_\_\_\_\_  
 (Signature of person responsible for health and safety training)

\_\_\_\_\_  
 (Date)

# NEWLY-HIRED EXPERIENCED MINER TRAINING RECORD/CERTIFICATE

Miner's Full Name (Print) \_\_\_\_\_

Mine or Contractor Name \_\_\_\_\_

MSHA ID# \_\_\_\_\_

Subject 30 CFR Part 46.6	Training Duration	Date	Competent Person	Location (Name & Address if Institution)	Miners Initials
<i>The miner received the following training before beginning work:</i>					
(b)(1) Introduction to work environment, mine tour, mining method/operation					
(b)(2) Instruction on recognition and avoidance of electrical and other hazards					
(b)(3) Emergency procedures, Escape, and firefighting					
(b)(4) Health and safety aspects of tasks assigned					
(b)(5) Instruction on statutory rights of miner and their representatives					
(b)(6) Authority & responsibility of supervisors and miners representatives					
(b)(7) Introduction to your rules and procedures for reporting hazards					
<i>No later than 60 days:</i>					
(c) Self-rescue, respiratory devices, if used					

**False certification is punishable under section 110 (a) and (f) of the Federal Mine Safety and Health Act.**

I certify that the above training has been completed.

\_\_\_\_\_  
(Signature of person responsible for health and safety training)

\_\_\_\_\_  
(Date)





**SITE-SPECIFIC HAZARD AWARENESS TRAINING  
RECORD/CERTIFICATE**

**Miner's Full Name (Print)** \_\_\_\_\_

**Mine or Contractor Name** \_\_\_\_\_

**MSHA ID#** \_\_\_\_\_

**Length of Training:** \_\_\_\_\_

**Date of Training Provided:** \_\_\_\_\_

**Competent Person Providing the Training:** \_\_\_\_\_

**Miner's Initials:** \_\_\_\_\_

**False certification is punishable under section 110 (a) and (f) of the Federal Mine Safety and Health Act.**  
I certify that the above training has been completed.

\_\_\_\_\_  
(Signature of person responsible for health and safety training)

\_\_\_\_\_  
(Date)

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# Questions?

<https://www.msha.gov/>