



Mining Safety (MSHA)

MSHA – New Miner

New Miner Lesson 1 - Line of Authority

Description:

This lesson is included in the New Miner Training program in the form of a worksheet to be completed by the competent person/instructor and reviewed by the new miner in order to become familiar with the specific line of authority at the mine site.

New Miner Lesson 2 - Introduction

Description:

This lesson is presented in the form of a checklist to be completed by the competent person/instructor while presenting the new miner with an introduction to the mine site, its layout and its hazards.

New Miner Lesson 3 - Emergency Procedures

Requirement References:

- 30 CFR SUBCHAPTER H -- EDUCATION AND TRAINING
- Part 46 - Training and Retraining of Miners Engaged in Shell Dredging or Employed at Sand, Gravel, Surface Stone, Surface Clay, Colloidal Phosphate, or Surface Limestone Mines.
- Sections 46.1 – 46.12

Description:

Injuries, fire, and equipment damage are typical emergencies that may occur at a mine. Other emergencies might include earthquakes, tornadoes, explosions, bomb threats, hazardous spills, and acts of violence. Knowing the actions to take could be the difference between life and death. This lesson describes emergency procedures mines have in place for handling emergencies. Students will learn who to contact, how warning signals notify employees of emergencies, how to evacuate, and where to report.

Goal:

Each mine employee will identify the correct procedures in the event of serious injury, fire, or other emergency.

Objectives:

- Identify medical emergency procedures that may take place at a mine.
- Identify the typical fire warning signals, fire fighting equipment, and how to use a fire extinguisher.
- Recognize the emergency evacuation plans and reporting procedures at a typical mine site.
- Identify how to respond to weather-related and natural disasters.
- Identify how to respond to other types of emergencies such as explosions, bomb threats, hazardous spills, and acts of violence.



New Miner Lesson 4 - Statutory Rights

Requirement References:

- MSHA Part 46 Training Regulations
- Title 30 CFR

Description:

When congress enacted the Federal Mine Safety and Health Act of 1977, certain statutory rights were given to miners and their representatives. This lesson provides an awareness of the rights that directly affect miners their representatives.

Goal:

The goal of this lesson is to provide miners with an awareness of their rights and the rights of their representatives under the Federal Mine Safety and Health Act of 1977.

Objectives:

- Identify their rights and the rights of their representatives under the Federal Mine Safety and Health Act of 1977.



New Miner Lesson 5 - Hazard Recognition and Avoidance

Requirement References:

- 30 CFR SUBCHAPTER H -- EDUCATION AND TRAINING
- 30 CFR 46.1 Scope
- 30 CFR § 46.2 Definitions
- 30 CFR § 46.3 Training plans
- 30 CFR § 46.4 Training plan implementation
- 30 CFR § 46.5 New miner training
- 30 CFR § 46.6 Newly hired experienced miner training
- 30 CFR § 46.7 New task training
- 30 CFR § 46.8 Annual refresher training
- 30 CFR & 46.9 Records of training
- 30 CFR § 46.10 Compensation for training
- 30 CFR § 46.11 Site-specific hazard awareness training
- 30 CFR § 46.12 Responsibility for independent contractor training

Description:

Miners work in an environment where there are both mechanical and physical hazards such as mobile equipment, heavy machinery, electricity, unsafe ground conditions, loud noise, and heavy dust. To work safely at a mine site, miners must learn to recognize these hazards and take appropriate steps to avoid the risks.

Goal:

Each mine employee will know how to identify some of the more common hazards found at mine sites and the protective measures used to minimize the risk.

Objectives:

- Identify the three primary methods of controlling hazards.
- Identify the hazards and protective measures involving mobile equipment.
- Identify the potential mechanical hazards at mine sites and how to minimize the risk.
- Identify the hazards involving electricity and how to minimize the risk.
- Identify hazards that may result in “struck by” incidents and how to minimize the risk.
- Identify unsafe ground conditions and how to minimize the risk.
- Identify slip, trip, and fall hazards and how to minimize the risk.
- Identify several environmental hazards and how to minimize the risk.



New Miner Lesson 6 - Reporting Hazards

Requirement References:

- 30 CFR SUBCHAPTER H -- EDUCATION AND TRAINING
- 30 CFR 46.1 Scope
- 30 CFR § 46.2 Definitions
- 30 CFR § 46.3 Training plans
- 30 CFR § 46.4 Training plan implementation
- 30 CFR § 46.5 New miner training
- 30 CFR § 46.6 Newly hired experienced miner training
- 30 CFR § 46.7 New task training
- 30 CFR § 46.8 Annual refresher training
- 30 CFR & 46.9 Records of training
- 30 CFR § 46.10 Compensation for training
- 30 CFR § 46.11 Site-specific hazard awareness training
- 30 CFR § 46.12 Responsibility for independent contractor training

Description:

Miners work in an environment where there are many hazards such as mobile equipment, heavy machinery, electricity, unsafe ground conditions, loud noise, and heavy dust. To work safely at a mine site, miners must learn to recognize these hazards and take appropriate steps to avoid the risks and to promptly report hazards. In this lesson you will learn the importance of promptly reporting hazards.

Goal:

Each mine employee will know how to properly report risks.

Objectives:

- Recognize the importance of promptly reporting hazards.

New Miner Lesson 7 - Health and Safety Aspects of Assigned Tasks

Description:

The competent person/instructor uses this checklist as a guideline to ensure that the health and safety aspects of a new task are adequately addressed for the miner assigned to the task.



New Miner Lesson 8 - Respiratory Protection

Requirement References:

- 30 CFR SUBCHAPTER H -- EDUCATION AND TRAINING
- Part 46 - Training and Retraining of Miners Engaged in Shell Dredging or Employed at Sand, Gravel, Surface Stone, Surface Clay, Colloidal Phosphate, or Surface Limestone Mines. Sections 46.1 – 46.12
- 30 CFR Subchapter K Metal and Nonmetal Mine Safety and Health
- Part 56 Safety and Health Standards – Surface Metal and Nonmetal Mines
- Subpart D – Air Quality and Physical Agents – Air Quality
- Section 56.5001, 56.5002, 56.5005 and 56.5006
- American National Standards Practices for Respiratory Protection ANSI Z88.2-1969

Goal:

The goal of this lesson is to discuss why a miner may need to wear a respirator, how to select the right respirator and how to wear it properly.

Objectives:

- Recognize the respiratory hazards associated with surface mining dust.
- Recognize the basic respirator user qualifications and training requirements.
- Identify how to select the right respirator for the task.
- Recognize how to use and care for respirators.

New Miner Lesson 9 - First Aid

Requirement References:

- 30 CFR Subchapter K Metal and Nonmetal Mine Safety and Health
- Part 56 Safety and Health Standards – Surface Metal and Nonmetal Mines
- Subpart N – Personal Protection
- Section 56.15001
- Subpart Q – Safety Programs
- Section 56.18010, 56.18012, 56.18013, 56.18014
- MSHA's Program Policy Manual

Goal:

Each employee will know how to initially respond to an accident or injury situation.

Objectives:

- Identify the correct actions to take during an initial response to an accident or first aid situation.
- Identify situations involving bleeding.
- Identify the symptoms of shock.
- Identify situations involving burns.
- Identify situations of electrical shock.
- Identify the symptoms associated with a head injury.
- Identify situations involving fractures.
- Identify potential poisoning accidents.
- Identify the signs and symptoms associated with environmental emergencies including snakebites and heat and cold stress.