



Quarterly Stakeholder Call

April 1, 2020

U.S. Department of Labor
Mine Safety & Health Administration



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Agenda

2:00 – Welcome and Introduction

2:15 – COVID-19 DOL/MSHA Actions

2:20 – Surface Collision Warning & Underground Proximity

2:25 – Review of 2019 Fatality “Categories”

2:30 – Review of 2020 Fatalities to date

2:35 – Enforcement - Realignment (Map)

2:40 – Education, Policy and Development – Training

2:45 – Regulatory Update

2:50 – Questions

Closing Remarks



Opening Remarks

David G. Zatezalo

Assistant Secretary for Mine Safety & Health



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Collision Warning Systems

Collision Warning Systems – provide information to the operator

Collision Avoidance Systems – take control away from the operator

Technologies are available to reduce blind spots around equipment and enhance operator situational awareness.

1. Cameras, including 360 degree and object detection
2. LIDAR, Ultrasound, and RADAR for object detection
3. Tag based using radio frequency or electromagnetic
4. Global Navigation Satellite Systems such as GPS

Consider:

1. Heavy equipment and light vehicles
2. Stationary objects, mine conditions, and surface features
3. Contractors and visitors
4. Pedestrians

msha.gov – search “Proximity” and “Collision Warning”

MSHA Technical Support is available
to provide additional information



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Proximity Underground

Accidents and other Proximity Detection System (PDS) issues

1. PDS not used properly

1. Not wearing Miner Wearable Component
2. Overriding the PDS
3. Other attempts to intentionally defeat the PDS

2. PDS not maintained properly

1. Zones not maintained as commissioned
2. Machine mounted components installed improperly
3. Static and dynamic testing inadequate



Proximity Underground

Keep your miners SAFE

Set-up zones to prevent contact

1. Consider conditions and machine speed
2. Allow for machine movement – tail swing and dynamic

Assure zones remain as commissioned through examinations

1. Perform static and dynamic testing – compare to zone configurations set by mine management
2. Do not rely on computer diagnostic tools

Frequently maintain and update

1. Machine mounted components
2. Software and firmware updates recommended by PDS manufacturers
3. Enhanced features offered by PDS manufacturers

Educate and train miners

1. Stay out of Red Zones
2. How the system operates
3. Why the system is in place
4. Be aware of Electromagnetic Interference – manufacturer recommend separation distances



2019 Fatal Categories

Category		%		Total
Powered Haulage	7	28%		
Machinery	7	28%		
Slip/Fall	4	16%		
Electrical	3	12%		
Fall of Roof or Back	2	8%		
Ignition of Gas	1	4%		
Hoisting	1	4%		
	Surface		UG	
Coal	3		8	11
M/NM	13		1	<u>14</u>
				25



MSHA Fatality

#1 - 2020

On January 8, 2020, a miner fell into a portable load out bin, and died at the scene.



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MSHA Fatality

#2 - 2020

On February 10, 2020, a mine examiner was operating a personnel carrier down a mine intake slope. Evidence indicates that the personnel carrier struck the left rib while traveling down the intake slope. The mine examiner was found unresponsive near the bottom of the slope, lying beside the personnel carrier.



MSHA Fatality

#3 - 2020

On February 27, 2020, a miner died when an unsecured 20'x8'x1" steel plate standing on edge fell and struck him. The steel plate was being used to cover the end of a feeder to allow an equipment operator to build an earthen ramp to the feeder.



MSHA Fatality

#4 - 2020

On February 27, 2020, a trucking company employee died while helping to position a low-boy trailer. The victim was standing in front of the trailer wheels to assist the driver. The truck driver moved the truck forward causing the wheels of the trailer to strike the victim.



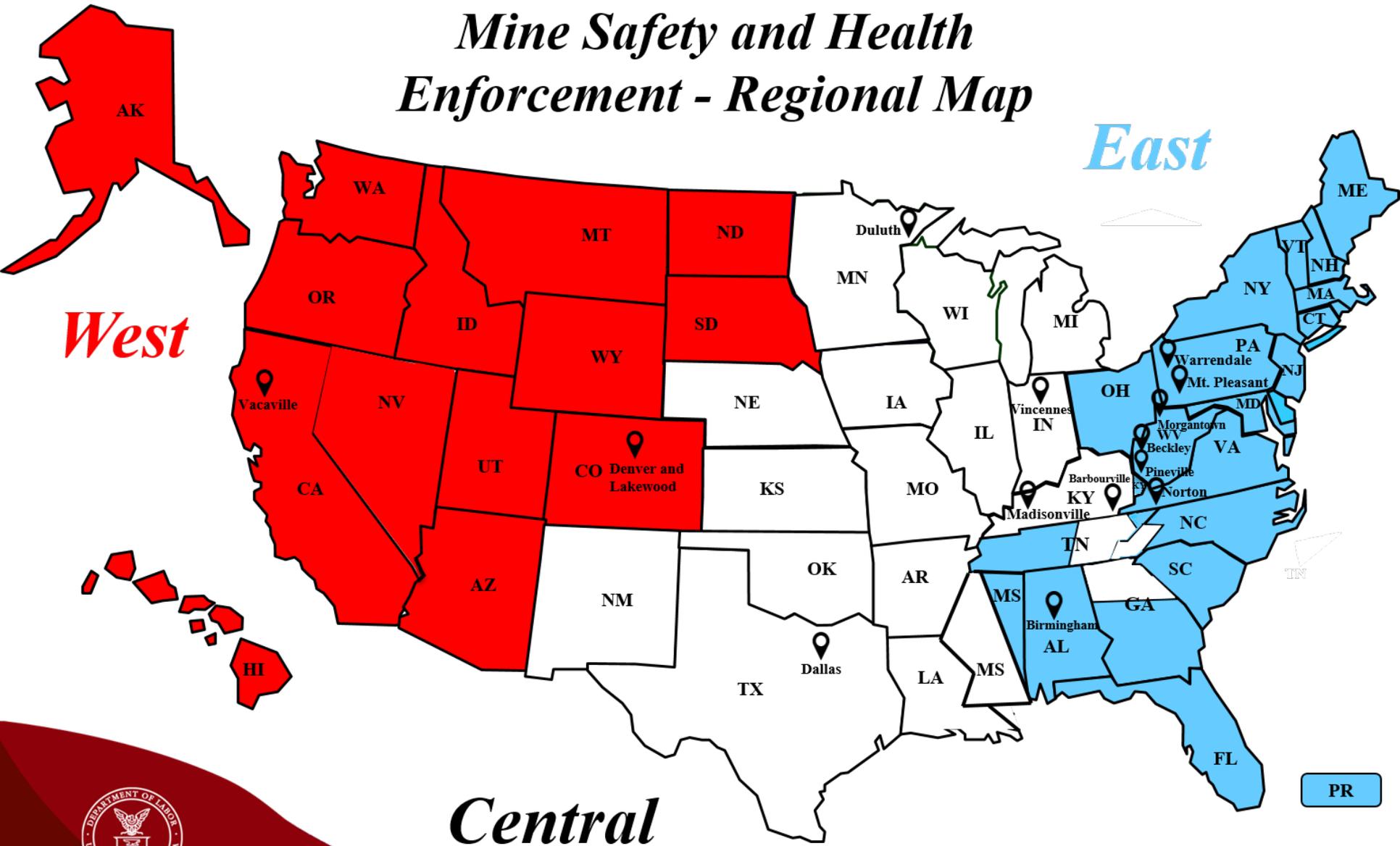
MSHA Fatality

#5 - 2020

On February 29, 2020, a plant foreman was priming the main suction pump on a dredge when a two-inch coupling on the waterjet pipe failed, knocking the victim into the water. Divers retrieved his body several hours later. The victim was not wearing a life preserver.



Mine Safety and Health Enforcement - Regional Map



 Denotes District Offices



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Training Extension



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Educational Field and Small Mine Services

MSHA wants you to know that the EFSMS Training Specialists are still working. Currently the training specialists are not visiting mine sites but they are available by phone or email to help you with your training needs. Some specialists are in their offices and some are teleworking. You can reach the EFSMS training specialists in one of two ways.

- One way is to call your local MSHA field office or District office and ask for the training specialist in your area. If they are not in the office the field office or district office can give you the specialists email address for you to contact them.**
- The best way at this point to reach an EFSMS Training Specialist is to go to the [MSHA.gov](https://www.msha.gov) website>Education and Training Tab>Under Related Links use the Educational Field and Small Mine Services Tab>EFSMS Contact Us Link.**

The contact list will include the EFSMS manger, regional managers, supervisors, training specialists and the email address for each.

Please feel free to contact the EFSMS Training Specialists with your training needs.



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Mine Safety and Health Administration EDUCATIONAL FIELD AND SMALL MINE SERVICES

Educational Field and Small Mine Services (EFSMS) provides assistance in the development and improvement of the health and safety programs of mine operators and contractors in the mining community. The EFSMS specializes in training programs tailored to reduce the number of injuries and illnesses in the mining industry. Additionally, EFSMS evaluates industry instructors to ensure miners receive quality and effective training.

EFSMS staff are located in 35 states and travel to mines and training centers to provide assistance that will strengthen and modernize training.

[Contact Us](#)

[Education and Training](#)

[Training Plan Development](#)

[Training Certificate 5000-23](#)

[Part 46 Training Records / Certificates](#)

[Training Providers, State Grantees](#)

[Job Task Analysis \(JTAs\)](#)

EFSMS works closely with MSHA District enforcement offices to identify industry needs and provide assistance to mines with safety and health issues. EFSMS provides assistance to the mining community through outreach initiatives, which are developed in collaboration with MSHA and the mining industry to address current or trending accidents in the mining community. These programs help mine operators develop or revise training, safety and health programs to address the conditions and hazards specific to their mines. Additionally, EFSMS provides assistance with developing training plans, instructor training (train-the-trainer), evaluating instructors, and training demonstrations using Mobile Safety Training Units.

Services We Provide

- Providing regulatory assistance
- Conducting training program analysis
- Approving Part 46 training plans
- Providing concentrated assistance to mines with greater need
- Providing training to miners, managers, and other stakeholders
- Evaluating and assisting industry instructors to develop and improve their skills
- Participating in accident investigations and providing expertise on safety and training issues surrounding the accident to determine root causes
- Forming partnerships with associations and other entities to increase focus on safety and health issues in the industry
- Assisting with the development and growth of the Joseph A. Holmes Safety Association
- Providing information at public forums such as health and safety conferences and outreach programs

Weekly ToolBox Talks

A series of weekly ToolBox talks that can be used by small mine operators and others to hold safety and health discussions for their employees at their mining operations. EFSMS hopes these ToolBox talks will help small mine operators and their miners to keep safety and health at the forefront of their daily and weekly activities.

Non-Retaliation Policy

MSHA has a policy that communications with the agency about safety and health regulations or other safety and health related subjects shall not trigger enforcement action. This policy reflects the fact that the agency's objective is to provide assistance to help operators prevent and reduce workplace fatalities, illnesses and injuries.

MSHA Training Center

MSHA has just announced the allocation of over \$8 million in federal health and safety training grants. MSHA will be developing a training resource on this site for Part 46 & Part 48 trainers. Click the link above to view more information and join the conversation about the best ways to deliver training that keeps miners safe and healthy.



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[FAQs](#) | [Freedom of Information Act](#) | [Privacy & Security Statement](#) | [Disclaimers](#) | [Contact Us](#)

EFSMS Training Services

- Training Record Reviews
- Instructor Development
- Part 46/48 Training Plan Reviews
- Development and Improvement of Training Materials
- Miners Rights/Representatives
- Education and Training Provider
- Improve Health & Safety Cultures
- Strengthen & Modernize Training
- Assist in the Development or Improvement of Operator/Contractor Comprehensive H&S Programs



Educational Policy and Development

Resource Links
for
Mine Operators
Contractors
Trainers



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Training Resource Links

MSHA.gov

Training and Education

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

Training Programs and Courses

- <https://www.msha.gov/training-education/training-programs-courses>

Safety and Health Materials

- <https://www.msha.gov/training-education/safety-health-materials>

Developing a Training Plan

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

Mine Rescue Training

- <https://www.msha.gov/training-education/mine-rescue-training>

Instructor Materials

- <https://www.msha.gov/training-education/instructor-materials>

Quarterly Training Calls

- <https://www.msha.gov/training-education/quarterly-training-calls>

Mine Academy Programs

- <https://arlweb.msha.gov/PROGRAMS/MineAcademy/Academy.asp>



Training & Education

[Training Programs and Courses](#)

[Safety and Health Materials](#)

[Developing a Training Plan](#)

[Mine Rescue Training](#)

[Instructor Materials](#)

[Quarterly Training Calls and Stakeholder Meetings](#)

Training & Education

Training is an essential part of MSHA's mission to keep miners safe and healthy. Our goal is to help the mining industry develop high-quality training programs, and to strengthen and modernize training through collaboration with industry stakeholders.

Federal law requires that all miners receive basic and annual refresher training, and that all mine operators maintain an effective training plan. MSHA provides materials, guidance, and hands-on assistance to help miners and operators meet their training obligations and more. In the Training & Education section of our website, we have gathered many of our materials for your convenience, and will add to them over time.

Questions? Comments? Materials to share? Please contact us at mshatraining@dol.gov for assistance or to suggest improvements.

[+ Part 48 or Part 46? Learn what it means here](#)

Training Programs and Courses

Find out about MSHA's wide variety of mine safety and health training programs and courses, offered both in-person and online.

Safety & Health Materials

Browse MSHA's collection of mine safety and health materials, which can be used to assist trainers and mine operators in promoting a safe and healthy environment at U.S. mines.

Developing a Training Plan

Access resources to assist in the development of training plans for Part 46 and Part 48 mines.

Mine Rescue Training

Learn about mine rescue training requirements and mine rescue contests. Access instructional materials, view the Mine Rescue Hall of Fame, and find out more about the history of mine rescue in the U.S.

Quarterly Training Calls

Access the materials used in MSHA's quarterly training conference calls as well as audio recordings of the calls (when available).

QUICK LINKS

[Subscribe to get training updates and alerts](#)

RELATED LINKS

[Educational Field and Small Mine Services](#)

[National Mine Health and Safety Academy](#)

[Coal District & Field Offices](#)

[Metal/Nonmetal District & Field Offices](#)



Training & Education**Training Programs and Courses**[Administrative Standards and Provisions](#)[Annual Training Resources Applied to Mining \(TRAM\) Conference](#)[Brookwood-Sago Mine Safety Grants](#)[Preventive Roof/Rib Outreach Program](#)[Safety and Health Materials](#)[Developing a Training Plan](#)[Mine Rescue Training](#)[Instructor Materials](#)[Quarterly Training Calls and Stakeholder Meetings](#)

Training Programs & Courses

MSHA offers a wide variety of mine safety and health training programs and courses both in-person and online.

In-person courses are held regularly at the [National Mine Health and Safety Academy](#) in Beaver, West Virginia, and can also be scheduled at your worksite upon request. Our online courses can be integrated into your own training programs. Please feel free to get in touch at mshatraining@dol.gov with any questions or comments about our training programs and courses.

National Mine Health and Safety Academy Courses

View the [catalog](#) of courses offered by the [National Mine Health and Safety Academy](#) in Beaver, West Virginia. Most courses are held at the Academy, and many can be scheduled at your worksite upon request.

Part 50 Training Program

This program is designed to clarify reporting requirements for accidents, injuries, and illnesses in the mining industry. This program will enhance MSHA's ability to evaluate and develop mine safety and health standards and programs which benefit the industry.

State Grant Programs

MSHA's State Grants Program distributes federal grants to 49 States and the Navajo Nation. Grants are made to the state agency program responsible for miners' health and safety. Most grant funds are used to support health and safety training courses and programs designed to reduce mining accidents, injuries, and illnesses.

- [Administrative Standards and Provisions](#)
- [Form 5000-50, MSHA State Grant Technical Progress Report Form](#)
- [Form 5000-50, MSHA State Grant Technical Progress Report Form \(Microsoft Excel Version\)](#)
- [Grants Management System Modernization](#)

Brookwood-Sago Mine Safety Grants

The MINER Act established the Brookwood-Sago Mine Safety Grants Program. This program uses grant funds to establish and implement education and training programs or to create training materials and programs. Funds are used to develop and implement training and related materials for mine emergency preparedness as well as for the prevention of accidents in underground mines.

- [Administrative Standards and Provisions](#)

Miners' Rights and Responsibilities

An online training program to learn specific information about the rights and responsibilities of miners

Miners' Representatives Guide

A supplement to the Miners' Rights and Responsibilities program designed to further understand the roles, rights, and responsibilities of miners' representatives

QUICK LINKS

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RELATED LINKS

[Educational Field and Small Mine Services](#)

[National Mine Health and Safety Academy](#)

[Coal District & Field Offices](#)

[Metal/Nonmetal District & Field Office](#)
[Training Resources Applied to Min](#)



Training & Education

Training Programs and Courses

Safety and Health Materials

Industry and MSHA Partnership Safety Material

Safety Topic: Conveyor Belts

Safety Topic: Impoundments and Dams

Safety Topic: Mobile Equipment at Surface Mines

Safety Topic: Seat Belt Usage

Developing a Training Plan

Mine Rescue Training

Instructor Materials

Quarterly Training Calls and Stakeholder Meetings

Safety & Health Materials

MSHA offers a wide variety of mine safety and health materials to assist trainers and mine operators in promoting a safe and healthy environment at U.S. mines. We are always looking for new materials to share with the mining community. Please contact us at mshatraining@dol.gov if you have any materials to share, or if you have any questions or suggestions regarding the safety and health materials on our website.

Small Mine Handbook

A compliance assistance tool for small mine operators covering health and safety programs, training plan development, reporting practices, and more.

Searchable Database

Find safety and health manuals, hazard alerts, presentations and compliance guides organized by mine type and hazard

Training Videos

A collection of videos covering health, safety and other mining-related topics

ToolBox Talks

A series of discussion topics that can be used by small mine operators and others to hold safety and health discussions for their employees at their mining operations

Fatality Alerts

Mining fatality summaries with associated best practices to help prevent similar incidents

Task Training

Concise guidelines for effective task training

Health and Safety Alerts

Information on current and previous health, safety and equipment hazard alerts

MSHA Handbook Series

A variety of handbooks describing inspection procedures, education & training procedures and technical support procedures

NIOSH Training Page

Education and training resources from the National Institute for Occupational Safety and Health

Industry Shared Safety Material

This section contains material submitted to MSHA by the mining industry that has shown to be effective in reducing accidents and injuries. Please feel free to use any of this material to help prevent accidents and injuries at your mine or facility site.

Industry and MSHA Partnership Safety Material

This section contains material produced as a result of a partnership between MSHA and the mining industry. These partnerships are part of MSHA's on-going outreach

QUICK LINKS

[Subscribe to get training updates and alerts](#)

RELATED LINKS

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[National Mine Health and Safety Academy](#)

[Coal District & Field Offices](#)

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Training & Education

[Training Programs and Courses](#)

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Developing a Training Plan

The following resources may be useful in developing training plans for Part 46 and Part 48 mines. If this is your first time creating a training plan, we highly recommend getting in touch with [Educational Field and Small Mine Services](#) for assistance. You can also review the current regulations set forth in 30 CFR [Part 46](#) and [Part 48](#). The official regulations outline the required components of an approved training plan, the types of training programs that must be included in a plan, and appropriate record-keeping procedures.

Training Plan Advisor & Online Plan Submission

Provides guidance in developing federally required training plans for Part 46 and Part 48 mines, and allows plans to be submitted online.

*The use of the eTPA is voluntary and meant to assist operators with the development of their training plans.

[Contact information for additional assistance](#)

MSHA's Helpdesk: (877) 778-6055

[Educational Field and Small Mine Services](#)

[New EGov Users Registration](#)

MSHA Program Policy Manual

Provides assistance in interpreting and clarifying the various training requirements outlined in 30 CFR Part 46 and Part 48.

Part 46 Training Plan Starter Kit

Also En Español

Provides help in developing an effective, mine-specific training program that meets the provisions of Part 46. This starter kit includes a sample training plan.

Part 46 Training Plan Guide

Outlines the minimum requirements for a Part 46 training plan and answers some of the most common questions regarding Part 46 training plan components.

QUICK LINKS

[Part 46 Training Records/Certificates](#)

[Subscribe to get training updates and alerts](#)

RELATED LINKS

[Educational Field and Small Mine Services](#)

[National Mine Health and Safety Academy](#)

[Coal District & Field Offices](#)

[Metal/Nonmetal District & Field Offices](#)



Training & Education

Training Programs and Courses

Safety and Health Materials

Developing a Training Plan

Mine Rescue Training

Comment on Coal Mine Rescue Training Instruction Guides IG7 and IG7A

Mine Rescue Contests

Mine Rescue Day

Mine Rescue Instruction Guides

Instructor Materials

Quarterly Training Calls and Stakeholder Meetings

Mine Rescue Training



When danger strikes, a speedy and safe rescue effort can mean the difference between life and death for trapped miners. Adequate training is essential, as rescuers must be available and ready to respond on a moment's notice.

The Mine Act requires that every operator of an underground mine assure the availability of mine rescue teams for purposes of emergency rescue and recovery of trapped or injured miners. Rescue teams must receive adequate training in accordance with [30 CFR Part 49.8](#) for underground metal and nonmetal mines, and [30 CFR Part 49.18](#) for underground coal mines. Mine rescue contests and simulations are an essential part of the training process, and ensure that teams receive hands-on exposure to a range of potential hazards and mine emergency scenarios.

Mine Rescue Contests

Mine rescue contests are designed to sharpen skills and test the knowledge of team members who would be called on to respond to a mine emergency. The contest requires team members to solve a hypothetical problem while being timed and observed by judges according to complex rules.

Mine Rescue Instruction Guides

MSHA's Mine Rescue Instruction Guides help mines meet mine rescue team training requirements under [30 CFR Part 49](#). Instructors and trainers can use the guides to either supplement existing mine rescue training, or tailor a program to fit their mine-specific training needs.

Mine Rescue Day

October 30th is Mine Rescue Day – a time to recognize the dedication and sacrifice of volunteers who risk their own lives to save other miners.

QUICK LINKS

Subscribe to get training updates and alerts

Educational Field and Small Mine Services

National Mine Health and Safety Academy

Coal District & Field Offices

Metal/Nonmetal District & Field Offices

Holmes Mine Rescue Association (HMRA)

National Mine Rescue Association

United State Mine Rescue Association

Coal Mine Rescue Hall of Fame

Metal Nonmetal Mine Rescue Hall of Fame

RELATED LINKS

Mine Rescue Team Regulatory Requirements – 30 CFR Part 49

Mine Emergency Response Development

Underground Communication & Tracking System Training



Training & Education

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Instructor Materials

Instructor materials and reference guides for MSHA approved instructors and competent persons

- [OT54 – Part 46 reference guide, questions and answers, sample training records](#)
- [OT55 – Part 48 reference guide, questions and answers, sample training records](#)
- [OT56 – Part 46 and Part 48 Reference Guide](#)
- [IG 24a – Part 48 training requirements for MSHA approved instructors](#)
- [IG 24b – Part 46 training requirements for competent persons](#)



Training & Education

[Training Programs and Courses](#)

[Safety and Health Materials](#)

[Developing a Training Plan](#)

[Mine Rescue Training](#)

[Instructor Materials](#)

Quarterly Training Calls and Stakeholder Meetings

Quarterly Training Calls and Stakeholder Meetings

**Access the materials used in MSHA's quarterly training conference calls or stakeholder meetings as well as audio recordings of the event (when available).*

May 2, 2019

[1st Quarter 2019 Conference Call](#)

- [Slide Show with information covering quarterly fatalities, training grants and more](#)

Listen to a recording of the call on May 2, 2019:



January 24, 2019

[4th Quarter 2018 Conference Call](#)

- [Slide Show with information covering quarterly fatalities and large mobile equipment outreach](#)

Listen to a recording of the call on January 24, 2019:



October 16, 2018

[3rd Quarter 2018 Conference Call Materials](#)

- [Slide Show with information covering quarterly fatalities, vehicle fire safety & conveyor safety outreach](#)

Listen to a recording of the call on October 16, 2018:

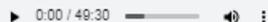


August 10, 2018

[2nd Quarter 2018 Conference Call Materials](#)

- [Slide Show with information on conveyor belt safety and fatality review](#)
- [More information about the upcoming 2nd Quarter Conference Call](#)

Listen to a recording of the call on August 10, 2018:



Academy Overview



National Mine Health and Safety Academy

**1301 Airport Road
Beaver, West Virginia 25813-9426**

The mission of the National Mine Health and Safety Academy is to reduce accidents and improve health conditions in the mining industry through education and training. To fulfill this mission, the Academy conducts a variety of education and training programs in health and safety and related subjects for Federal mine inspectors and other government mining and industry personnel.

Quick Links

- [MSHA Library Collections and Services](#)
- [Courses for MSHA and the Mining Industry](#)
- [Student Handbook](#)
- [Search Library Catalog](#)
- [Catalog of Training Products for the Mining Industry](#)
- [Route Map to the Academy](#)

General Information

Overview

The National Mine Health and Safety Academy is one of eight Federal academies operated by the U.S. Government. ([more](#))

- [Promotional Video](#)

Purpose

The Academy designs, develops and conducts instructional programs to assist in government, industry, and labor efforts to reduce accidents and health hazards in the mineral industries.

Objective

Progress has been made in recent years in the improvement of the health and safety conditions in U.S. mines. However, further improvements must be made before mining is removed from the list of high-risk industries. These improvements can only come about through the establishment of effective accident prevention and industrial hygiene programs. ([more](#))

Organization

The Academy is supported by the Superintendent's Office with the aid of five major organizational units-- the Department of Instructional Services, Department of Instructional Materials, Facilities Support Services, Department of Mining Technology, and the Technical Information Center and Library. ([more](#))

Academy History

In a five-year period from 1906-1911, 13,228 miners were killed in U.S. coal mines. As a result, the Bureau of Mines was established by Congress on July 1, 1910, "to make diligent investigation of the methods of mining, especially in relation to the safety of miners and the appliances best adapted to prevent accidents." ([more](#))

Physical Facilities

The Academy complex includes classrooms and laboratories accommodating 600 students, a residence hall of 174 lodging rooms, a cafeteria, library, auditorium, and wellness facilities. ([more](#))

Reservation Policy

The Academy will hold a block of reserved dormitory rooms for an event, for up to fourteen (14) calendar days prior to the beginning date of the event. To confirm blocked dormitory rooms, the names of the persons attending the event must be provided to the Academy within fourteen calendar days of the event. Blocked rooms which are not confirmed within 14 calendar days of the event can be released. ([more](#))

Mine Simulation Laboratory

The Mine Simulation Laboratory is an above-ground simulated mine that provides hands-on training for MSHA inspectors and mining industry personnel. The 48,000 square foot facility has a simulated coal mine with an indoor burn room on the lower level and a simulated metal/nonmetal mine on the second floor level. The coal mine represents a room-and-pillar setup with four (4) entries and nine (9) crosscuts. ([more](#))

Some or all of the files available on this page are PDF. For more information on PDF, PDF readers and accessibility issues, please use [this link](#).



Educational Field and Small Mine Services EFSMS

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Regulatory Update

Electronic Detonators – Final rule effective as of March 2020

Part 18 Approval – NPRM streamlining for electronic product approval process in 2020

Non-Permissible Surveying Equipment – NPRM in 2020

Refuge Alternatives – (limited reopening) Final rule in 2020

Powered Haulage Safety Program – NPRM in 2020

Respirable Quartz – February public meeting and August stakeholder workshop partnering w/ NIOSH



Questions?



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Closing Remarks



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