

# Courses for MSHA and the Mining Industry



U.S. Department of Labor  
Mine Safety and Health Administration  
National Mine Health and Safety Academy

FY 2025



Dedicated to the Health and Safety  
of the Nation's Miners

# Need Customized Training?



**Courses can be scheduled for on-site training or can be held at the National Mine Academy.**

**When scheduling a course, the length of the training can be modified to suit individual needs.**

Visit the Mine Safety and Health Administration  
at [www.msha.gov](http://www.msha.gov)

## Welcome

Welcome to the 2025 edition of *Courses for MSHA and the Mining Industry* provided by the National Mine Health and Safety Academy in Beaver, West Virginia.

The Academy is the world's largest educational institution devoted to the health and safety of the miners in the mining industry. Courses are taught by Academy faculty, associate instructors and specialists from the mining industry, trade associations, colleges and universities, manufacturers, and other government agencies.

This catalog provides a listing of the many useful and practical courses available to individuals and groups interested in mine health and safety.

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## History

Protecting those who work in our Nation's mines requires an awareness and understanding of the conditions that endanger their health and safety.

This concern was recognized more than 140 years ago when a proposal for a Federal Mining Bureau was submitted to Congress. It was not until nearly five decades later that a series of deadly mine explosions led to passage of the Organic Act of 1910. That Act created the Bureau of Mines.

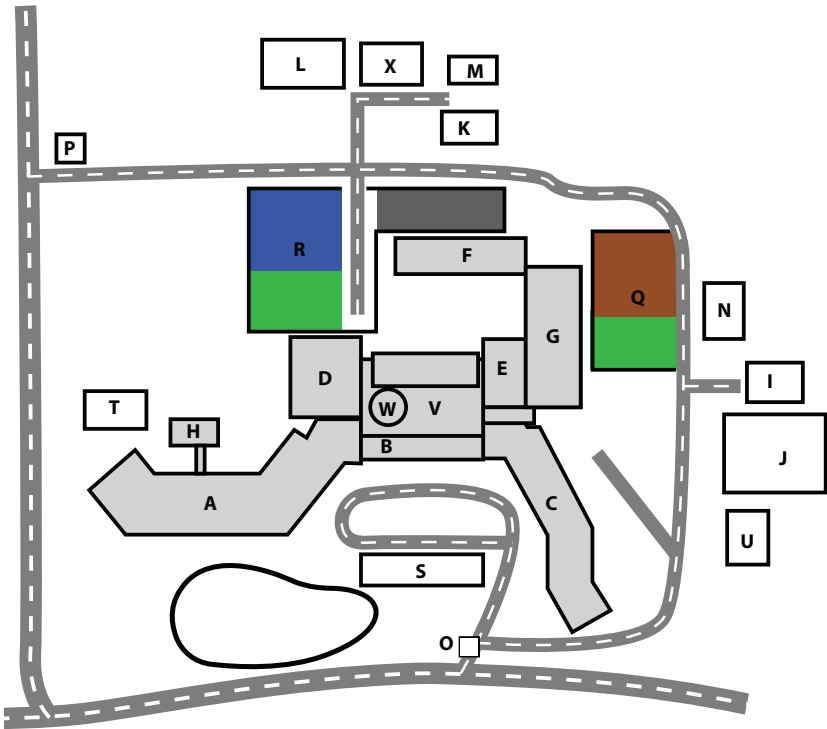
Laws passed over the next 60 years enlarged the scope of legislation aimed at reducing mining hazards. The Federal Coal Mine Health and Safety Act of 1969 contained provisions for the training of Federal mine safety and health inspectors, as well as establishing education and training for states, mine operators, and miners. The Federal Mine Health and Safety Act of 1977 broadened these provisions to include metal and nonmetal mining. The National Mine Health and Safety Academy supports the requirements of the 1977 Act, and the newly enacted Mine Improvement and New Emergency Response Act of 2006.

## The Academy's Purpose and Goal

The mission of the Academy is to design, develop, and conduct instructional programs that will assist in government, industry, and labor efforts to reduce injuries, illnesses, and fatalities in the mineral industries.

All of the Academy's programs, seminars, and courses are prepared with one objective in mind – to improve health and safety conditions of mines through education and training. This is the Academy's goal. It is the aim of the Academy to help reduce mine accidents and unsafe or unhealthy working conditions in the mining industry through advancing education and training focused on mine safety and health.

# Academy Map



- A – A Building / Dormitory
- B – B Building / Administration Office
- C – C Building / Classroom Wing
- D – Gymnasium / Beckley Field Office
- E – E Building / Electrical Laboratory
- F – F Building / National Air and Dust Laboratory
- G – G Building / Instructional Materials Distribution Center
- H – Swimming Pool
- I – Mine Emergency Operations #1
- J – Mine Simulation Lab
- K – Beckley District Office
- L – Blue Falcon Mining Building
- M – Butler Building
- N – Mine Emergency Operations #2
- O – Guard House
- P – Rear Guard House
- Q – Parking Lot No. 1
- R – Parking Lot No. 2
- S – Reserve Parking
- T – Tennis Court
- U – Fire Pad / Burn Tunnel
- V – Cafeteria
- W – Auditorium
- X – Warehouse Facility

- Green Parking – Staff
- Brown Parking – General
- Blue Parking – Overnight Guests
- Gray Parking – Longterm, Oversized, & Academy Vehicles

## Academic Programs

### MSHA Training

Newly hired MSHA mine safety and health inspectors receive Entry-Level Training (ELT). ELT is comprised of training modules taught at the Academy, required on-line prerequisite courses, and on-the-job training in the field. This Training prepares new inspectors in the technical aspects of mine inspections, regulatory requirements, with an emphasis in mine safety and health. Additional courses such as effective communications and professionalism are taught as well as other subjects.

Journeyman (JM) retraining provides current technical and regulatory information to journeyman mine safety and health inspectors to continue to effectively serve the mining community. The Academy also presents courses to provide journeyman with more in-depth training on specific subjects.

Technical Specialists receive training in a variety of subjects so that they remain informed regarding current technical and regulatory information.

The Academy offers computer training on various software applications to MSHA personnel and others from the mining industry and other government agencies.

## Training for Industry

All Academy courses are open to participants from throughout the mining community. These programs are taught by Academy and visiting outside instructors and specialists from the mining industry, trade associations, colleges and universities, manufacturers, and other government agencies. Seminars, workshops, and conferences are offered during the year, both at the Academy and at sites throughout the country.

Many courses provide certification or qualification to persons who conduct mandated examinations.

Examples of courses available to the industry are Electrical Safety for Miners, Hoists and Elevators, Instructor Training Workshop (Part 48), Construction and Repairs Safety, Mine Elevator Inspection Program Training, Noise Hazards, Regulation and Procedures, and Surface Facilities and Coal Preparation. In addition, the Academy will develop and teach additional courses for industry and interested participants if valid requests are made.

Training activities in the Mine Simulation Laboratory include mine rescue, firefighting, mine emergency response, simulated inspections, ventilation, roof control, haulage, supervisory training, and mine examination. Students come from MSHA, other Federal and state agencies, industry, labor organizations, and international mining delegates.

## Academic Life

### Class Attendance

Classes are informal and dress is business casual. However, due to safety concerns, proper personal protective equipment (PPE) should be worn to Academy classes that include mine labs and mine field trips. You may wish to bring formal business attire for the graduation ceremony or other activities.

A typical class day begins at 8:00 a.m. and ends at 4:00 p.m. All other day classes end by 5:00 p.m., unless otherwise scheduled.

### Units of Credit/Certificates of Participation

Students may receive Continuing Education Units (CEUs) upon completion of an Academy course or program. One CEU is 10 contact hours of participation in an educational experience. The Academy does not grant degrees, however CEUs may be converted into college credit hours at other educational institutions.

Students who satisfy the course requirements or program criteria for successfully completing courses of study receive a Certificate of Completion documenting the course title, date, and CEUs. Certificates are not given for individual entry level and journeyman level classes.

## Academic Dishonesty

The student can be dismissed from the Academy for cheating, dishonesty, plagiarism, or knowingly furnishing false information to the Academy.

## Withdrawal

The student may withdraw from an Academy program without penalty because of injury or other extenuating circumstances. If you withdraw, you will not receive credit for the courses of study in which you were enrolled.

## Transcripts

You may request (in writing) a copy of your academic record. Your request must include your full name and complete address. Submit your request to:

National Mine Health and Safety Academy  
Student Services  
1301 Airport Road  
Beaver, West Virginia 25813-9426

## Student Life

### Food Service and Student Store

Academy food service offers complete meals in a cafeteria setting. You may choose from a selection of freshly prepared entrees and desserts with a full range of beverages available to complement your meal. There is also a made-to-order deli and a salad bar. Heart-healthy and vegetarian selections are also available as well. Food service personnel can assist persons who may have special dietary needs. The cafeteria is open weekdays for breakfast from 6:15 a.m. to 8:00 a.m. and lunch from 11:30 a.m. to 1:00 p.m.

Academy students have access to a laundry area located in the dormitory wing. Vending machines are located throughout the Academy for students and guests. Problems with vending machines can be addressed by contacting the Food Service Director at (304) 256-3553.

The student store, located next to the cafeteria, has a wide variety of sundries, souvenirs, and gifts. The food service and student store accept all major credit cards.

### Wellness Department Hours

Pool Hours are Monday - Friday 12:00 p.m. to 7:00 p.m.

Gym Staff Hours Monday - Friday 10:00 a.m. to 7:00 p.m.

### For Your Health and Safety

Please observe all posted speed limits and all traffic and parking signs. If you need emergency medical attention, please dial ext. 555 and an Academy personnel will arrange for an ambulance. If there is no answer, dial 911 (Raleigh County Emergency Operations Center) and request medical assistance.

Assistance in completing accident health insurance claim forms

for Federal students may be obtained from your class coordinator or a responsible staff person on duty after normal duty hours.

You play an important part in accident prevention at the Academy. Should you see an actual or potential safety hazard, please report it to an instructor, class coordinator, or any Academy staff person.

Pets of any kind are prohibited on all Academy grounds, except for certified service animals accompanying people with impairments. Persons who are authorized to bring a service animal to the Academy must ensure the service animal is under their control at all times and are required to clean up any waste on Academy property caused by their service animal.

## Mail

You can send or receive mail (Monday through Friday) at the Residence Hall registration desk. Our mailing address is:

National Mine Health and Safety Academy  
1301 Airport Road  
Beaver, WV 25813-9426

## Security

When you arrive at the Academy you are required to stop at the main gate before entering the campus. Please have a personal photo identification card ready to present to the security guard. An ID Card must be displayed and worn while at the Academy. Additionally, security guards will issue a color coded parking permit. Display this card on your vehicle dashboard and park in the area designated on the permit.



## Fees and Billing

***All Academy fees are reviewed periodically and subject to change.***

### Tuition

The Academy will charge tuition fees to all persons attending Academy courses, except employees of Federal, State, or local governments, persons attending the Academy under a program supported through an MSHA State grant, and persons performing a direct service.

When attending a scheduled course as a stand-alone participant, the tuition is \$94.00 for a full day and \$47.00 for a half day. When requesting a course listed in this catalog for a group, the tuition is \$400 for a full day or \$200 for a half day (minimum and maximum student numbers may be required). If a course is requested to be held on site rather than the Academy, the tuition fee is \$400 per full day or \$200 for a half day, plus travel and lodging reimbursement for Academy instructor(s).

The tuition amount is due on arrival by credit card. We regret that **we cannot accept cash**. Billing is possible with a written request to the Academy's Student Services Branch two weeks in advance.

### Lodging

All persons in residence at the Academy, except MSHA personnel, other persons performing a direct service for MSHA, and persons attending a program supported through an MSHA State Grant, are charged for lodging. Lodging is only permitted for MSHA employees who are attending a course, event or on official business, and approved persons.

The lodging fee is \$46.00 per day for an individual and is due on arrival by credit card. We regret that **we cannot accept cash**. Billing is possible with a written request to the Student Services Branch.

Persons staying at the Academy may have their spouses and immediate family as guests provided all appropriate fees are paid on arrival. The fee for spouses and children 18 years of age and older is \$15.00. Children under the age of 18 are free and must be accompanied by an adult at all times. Advance reservations are required.

If you have special needs, please contact Student Services at (304) 256-3252 before your arrival.

## Travel to the Academy

Located on a plateau in Beaver West Virginia, the Academy blends into its Appalachian mountain setting. Scenic vistas and wildlife greet travelers to the Academy, and students experience a restful environment.

Several travel options are available:

### By Air

**Beckley, West Virginia** – The Raleigh County Memorial Airport is located 1 mile from the Academy.

**Charleston, West Virginia** – The Yeager Airport is located 65 miles north of the Academy. Rental cars are available.

**Lewisburg, West Virginia** – The Greenbrier Valley Airport is located 47 miles east of the Academy. Rental cars, taxis, and limousines are available.

### By Train

**AMTRAK** provides tri-weekly service to and from Prince, West Virginia – located 16 miles from the Academy. Taxi service meets all trains.

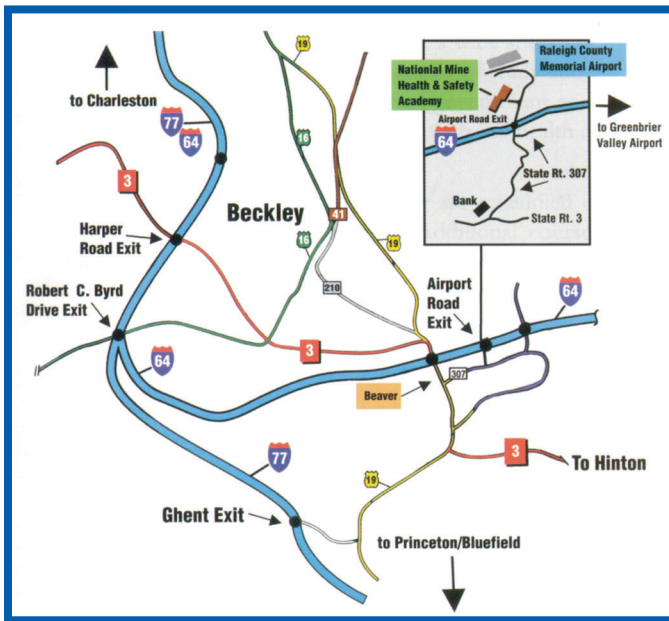
### By Bus

Daily **Greyhound** service is available to and from Beckley – located 8 miles from the Academy in downtown Beckley. Taxi service is available.

### By Car

See **Route Map** to the Academy on page 12.

## Route Map to the Academy



### Arriving from the NORTH

- » When using U.S. 19 South, go to and follow I-77 South, exit at I-64 East
- » Follow I-64 to Exit 125B, Airport Road
- » Academy is 1 mile on left

### Arriving from the EAST

- » When using I-64 West, use Exit 125, Beaver/Airport Road
- » Turn RIGHT at bottom of ramp
- » Academy is 1 mile on left

### Arriving from the SOUTH

- » When using I-77 North, exit and follow I-64 East
- » Use Exit 125B, Airport Road
- » Academy is 1 mile on left

### Arriving from the WEST

- » When using I-64 East, use Exit 125B, Airport Road
- » Academy is 1 mile on left

## Training Courses

The National Mine Health and Safety Academy develops and presents courses of study which cover a wide spectrum of mine health and safety subjects. These courses address training needs of miners, mine safety and health inspectors, government and industry personnel, and others concerned with the health and safety of our Nation's miners.

The courses described in this catalog are scheduled or can be scheduled during the coming year. Additional courses can be scheduled to meet specific needs of miners, mine operators, and mine health and safety specialists.

Please contact Student Services at (304) 256-3252 if you are interested in attending any course listed as "Scheduled Upon Request." A list of students requesting the course will be maintained by that office until a sufficient interest is received. All students will then be notified and a date will be established to hold the training.

Courses can be scheduled for on-site training  
or can be held at the National Mine Academy.

When scheduling a course, the length of the training  
can be modified to suit individual needs.

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## **ACCIDENT PREVENTION TECHNIQUES**

[SF601G] *INDUSTRY*

This course is designed for safety managers/directors, and mine managers involved in safety management. Several proven accident reduction techniques are covered during the class. In order to conduct in-class exercises, attendees must bring one year of previous accident information.

The course begins with a discussion on the principle of multiple causation and the importance of identifying the significant contributing factors in most mining accidents. Accidents/ incidents are divided into the three levels of causation with examples of each level discussed. Discussions focus on the indirect level of causation through a technique of identifying performance problems as either skill or motivational. Unsafe conditions and unsafe work practices are addressed through job safety analysis and job observation. Stress, safety communications, and effective safety talks will be covered.

The class concludes with a health and safety survey which can identify the strengths and weaknesses of a company's health and safety program.

### **Contents:**

- ◆ Accident/Incident Analysis
- ◆ Analyzing Performance Problems
- ◆ Safety Communications/Promotion
- ◆ Developing Effective Safety Talks
- ◆ Job Safety Analysis
- ◆ Job Observation
- ◆ Accident Investigations

**Course Length: 2 days**

***Scheduled upon request***

## **ANNUAL RETRAINING FOR IMPOUNDMENT QUALIFICATION**

**[IM602C] MSHA/INDUSTRY**

This course provides the annual retraining requirements for qualified impoundment mine safety and health inspectors. Impoundment mine safety and health inspectors are required to receive annual retraining in accordance with the requirements specified in the Code of Federal Regulations [30 CFR 77.107-1(b)].

**Please Note: MSHA Qualification and Certification no longer accepts Social Security Numbers on the application form that you must fill out in order to receive your qualification for impoundment inspection card after successful completion of the course. You will need an MSHA Individual Identification Number, available by applying online at:**

**<https://www.msha.gov/support-resources/forms-online-filing/2018/05/23/request-msha-individual-identification-number-miin>**

### **Contents:**

- ◆ Reviews of Proper Inspection Procedures
- ◆ Signs of Impoundment Stress
- ◆ Instrumentation Monitoring
- ◆ Construction Monitoring
- ◆ Emergency Action Planning
- ◆ Foundation Analysis
- ◆ Geotechnical Investigations
- ◆ Breakthrough Potential Analysis

**Course Length: 4 hours**

**Dates: March 25, 2025**

**June 10, 2025**

**August 19, 2025**

***Scheduled upon request***



## **ATMOSPHERIC MONITORING SYSTEM (AMS) WITH EMPHASIS ON FIRE PROTECTION**

**[EL603G] MSHA/INDUSTRY**

This course is designed to familiarize the student with the Safety Standards which apply to the Automatic Fire Sensor and Warning Device Systems also known as an Atmospheric Monitoring System, covered under 30 CFR 75.1103 and 30 CFR 75.351, and changes made under the Mine Improvement and New Emergency Response Act of 2006 (MINER Act). A hands-on session will be held at the Mine Simulation Lab to give the student a practical understanding of the system.

### **Contents:**

- ◆ MSHA Handbook on AMS Inspection Procedures, Provided by the Instructor
- ◆ Installation and Calibration Requirements
- ◆ An In-depth Understanding of 30 CFR Application
- ◆ Hands-on Session in the Mine Simulation Lab
- ◆ PowerPoint Presentation on the Aracoma Disaster and Changes Made in Fire Prevention Since 2006.

**Course Length: 1 day**

***Scheduled upon request***

## **BLASTING SEMINAR**

**[EX524G] MSHA and INDUSTRY**

This seminar is designed for company managers, blasting engineers, blasters, state and Federal mine safety and health inspectors (coal and metal/nonmetal), and others involved with the planning, design, and use of explosives in the mining industry. The most recent blasting techniques, trends, and developments will be discussed. Participants will have the opportunity to share ideas in small group sessions.

### **Contents:**

- ◆ Vibration Analysis/Seismographs/Efficient Blasting Techniques
- ◆ Storage of Explosives
- ◆ Handling and Use of Explosives
- ◆ Silica Dust and Toxic Gas Hazards in Blasting
- ◆ Blasting Agents and Emulsions

**Course Length: 2 days**

**Dates: February 19-20, 2025**

## **MSHA ELECTRICAL SPECIALISTS TRAINING**

**[EL41JM] *MSHA ONLY***

This course is designed for MSHA coal and metal/nonmetal Electrical Specialists to enhance their training and inspection skills. The course is customized annually to ensure inspectors are up-to-date on new policy and procedures. Classes covered normally are: Accident Review, Electrical Inspection Procedures, the new Proximity Safety Devices, and any current changes in the Electrical Field and Modifications.

**Course Length: 3 Days**

**Dates: TBD**

# **COAL MINE DUST PERSONAL SAMPLING UNIT (CMDPSU) (GRAVIMETRIC/ELF PUMP) INITIAL MAINTENANCE AND CALIBRATION CERTIFICATION**

[IHG613] *INDUSTRY*

This course provides the initial training for personnel who are required to calibrate and maintain a CMDPSU used to collect coal mine dust samples. Successful completion of this course certifies the participant to calibrate and maintain the CMDPSU under the Code of Federal Regulations (30 CFR Parts 70/71/90).

## **Contents:**

Instruction in the Regulations Governing the Coal Mine Operator's Respirable Dust Sampling Program Using a CMDPSU Including:

- ◆ Responsibilities of the Certified Person for Maintenance and Calibration
- ◆ Properties of the Approved Sampling Unit
- ◆ Hands-on Instructions:
  - > Pump Calibration Procedures
  - > Maintenance Requirements
  - > Sampling Unit Inspection
  - > Pre-Shift Checks of Approved Sampling Unit

**Course Length: 8 hours**

***Scheduled upon request***

# **COAL MINE DUST PERSONAL SAMPLING UNIT (CMDPSU) (GRAVIMETRIC/ELF PUMP) INITIAL SAMPLING CERTIFICATION**

[IHG612] *INDUSTRY*

This course provides the initial training for personnel who are required to sample with a CMDPSU to collect coal mine dust samples. Successful completion of this course certifies the participant to collect coal dust samples under the Code of Federal Regulations (30 CFR Parts 70/71/90).

## **Contents:**

Instruction in the Regulations Governing the Coal Mine Operator's Respirable Dust Sampling Program Including:

- ◆ Responsibilities of the Certified Sampler
- ◆ Respirable Dust Sampling Procedures using a CMDPSU
- ◆ Approved Sampling Units
- ◆ Hands-on Instructions:
  - > Inspection
  - > Use

**Course Length: 8 hours**

**Scheduled upon request**

# **COAL MINE DUST PERSONAL SAMPLING UNIT (CMDPSU) MAINTENANCE AND CALIBRATION RECERTIFICATION TEST**

[IHG603] *INDUSTRY*

The test is meant for persons who have a current certification for the Coal Mine Dust Personal Sampling Unit Maintenance and Calibration (gravimetric maintenance and calibration). To maintain certification, a person must pass the MSHA examination demonstrating competency in maintenance and calibration procedures every three years.

If your certification has expired, you must complete the applicable MSHA course of instruction and pass the MSHA examination demonstrating competency in maintenance and calibration procedures.

**Course Length: 8 hours**

***Scheduled upon request / Testing Fee - \$15***

## **COAL MINE DUST PERSONAL SAMPLING UNIT (CMDPSU) SAMPLING RECERTIFICATION TEST**

[IHG602] *INDUSTRY*

The test is meant for persons who have a current certification for the Coal Mine Dust Personal Sampling Unit (gravimetric sampling) (ELF pump). To maintain certification, a person must pass the MSHA examination demonstrating competency in sampling procedures every three years.

If your certification has expired, you must complete the applicable MSHA course of instruction and pass the MSHA examination demonstrating competency in sampling procedures.

**Course Length: 8 hours**

***Scheduled upon request / Testing Fee - \$15***

# **CONTINUOUS PERSONAL DUST MONITOR (CPDM) INITIAL MAINTENANCE AND CALIBRATION CERTIFICATION**

[IH409G] *INDUSTRY*

This course provides the initial training for personnel who are required to calibrate and maintain a CPDM used to collect coal mine dust samples.

Successful completion of this course certifies the participant to calibrate and maintain the CPDM under the Code of Federal Regulations (30 CFR Parts 70/71/90).

## **Contents:**

Instruction in the Regulations Governing the Coal Mine Operator's Respirable Dust Sampling Program using a CPDM Including:

- ◆ Responsibilities of the Certified Person for Maintenance and Calibration
- ◆ Properties of the Approved Sampling Unit

## **Hands-on Instructions:**

- ◆ Pump Calibration Procedures
- ◆ Maintenance Requirements
- ◆ Sampling Unit Inspection
- ◆ Pre-Shift Checks of Approved Sampling Unit

**Course Length: 8 hours**

***Scheduled upon request with a maximum of 14***



## **CONTINUOUS PERSONAL DUST MONITOR (CPDM) MAINTENANCE AND CALIBRATION RECERTIFICATION TEST**

**[IHG608] *INDUSTRY***

The test is meant for persons who have a current certification for the Continuous Personal Dust Monitor (CPDM) Maintenance and Calibration. To maintain certification, a person must pass the MSHA examination demonstrating competency in sampling procedures every three years.

If your certification has expired, you must complete the applicable MSHA course of instruction and pass the MSHA examination demonstrating competency in sampling procedures.

**Course Length: 8 hours**

***Scheduled upon request with a maximum of 14  
Testing Fee - \$15***

## **CONTINUOUS PERSONAL DUST MONITOR (CPDM) INITIAL SAMPLING CERTIFICATION**

**[IH407G] INDUSTRY**

This course provides the initial training for personnel who are required to sample with a CPDM to collect coal mine dust samples.

Successful completion of this course certifies the participant to calibrate and maintain the CPDM under the Code of Federal Regulations (30 CFR Parts 70/71/90).

### **Contents:**

Instruction in the Regulations Governing the Coal Mine Operator's Respirable Dust Sampling Program Including:

- ◆ Responsibilities of the Certified Sampler
- ◆ Respirable Dust Sampling Procedures Using a CPDM
- ◆ Approved Sampling Units

### **Hands-on Instructions:**

- ◆ Inspection
- ◆ Use

**Course Length: 8 hours**

***Scheduled upon request with a maximum of 14***

**CONTINUOUS PERSONAL DUST MONITOR (CPDM)  
SAMPLING RECERTIFICATION TEST**  
[IHG600] *INDUSTRY*

The test is meant for persons who have a current certification for the Continuous Personal Dust Monitor (CPDM). To maintain certification, a person must pass the MSHA examination demonstrating competency in sampling procedures every three years.

If your certification has expired, you must complete the applicable MSHA course of instruction and pass the MSHA examination demonstrating competency in sampling procedures.

**Course Length: 8 hours**

***Scheduled upon request / Testing Fee - \$15***

## **ELECTRICAL HAZARDS**

**[EL301M] MSHA ONLY**

This course is designed to provide practical methods and techniques to identify electrical hazards and the appropriate enforcement actions to be taken. This course is for MSHA metal/nonmetal inspection personnel with little or no electrical expertise.

### **Contents:**

- ◆ Basic Electrical Theory
- ◆ Basic Circuitry
- ◆ Grounding
- ◆ Power Distribution Systems
- ◆ Inspection of Electrical Equipment
- ◆ Regulations and Policies
- ◆ Hazard Recognition
- ◆ Citations and Orders
- ◆ Personal Safety

**NOTE: This course is not for Electrical Specialists.**

**Course Length: 3 days**

***Scheduled upon request***

## **ELECTRICAL SAFETY FOR COAL MINERS**

**[EL707C] MSHA ONLY**

This course is designed to provide practical methods and techniques to identify electrical hazards and the appropriate enforcement actions to be taken. This course is for MSHA coal inspection personnel with limited or no electrical expertise.

### **Contents:**

- ◆ Basic Electrical Theory
- ◆ Basic Circuitry
- ◆ Hazard Recognition
- ◆ Grounding
- ◆ Power Distribution Systems
- ◆ Regulations and Policies
- ◆ Personal Safety
- ◆ Citations and Orders
- ◆ Inspection of Electrical Equipment
- ◆ Permissibility

**NOTE: This course is not intended for Electrical Specialists.**

**Course Length: 3 days**

***Scheduled upon request***

## **ELECTRICAL SAFETY FOR METAL/NONMETAL MINERS**

**[EL602G] INDUSTRY**

This course is designed to provide practical methods and techniques to identify electrical hazards and the appropriate enforcement actions to take to correct them. This course is for metal/nonmetal industry personnel with limited or no electrical expertise.

### **Contents:**

- ◆ Grounding
- ◆ Power Distribution Systems
- ◆ Inspection of Electrical Equipment
- ◆ Regulations and Policies
- ◆ Hazard Recognition
- ◆ Personal Safety

***NOTE: This course is not intended for Electrical Specialists.***

**Course Length: 2 days**

***Scheduled upon request***

## **FIRST AID/CPR/AED (AMERICAN RED CROSS)**

**[SF700G] MSHA/INDUSTRY**

The purpose of the American Red Cross First Aid/CPR/AED program for the lay responder is to provide participants with the knowledge and skills necessary to help sustain life and minimize the consequences of injury or sudden illness until advanced medical help arrives.

This program offers a choice of First Aid, CPR, and AED components and injury-control modules to meet the various training needs of those in workplaces, schools, or community settings.

Expiration: 2 Years

**Course Length: 1 day**

**Tuition: \$94 per person**

***Scheduled upon request***

## **GROUND CONTROL HAZARDS**

[RC301M] *INDUSTRY*

This course will focus on the Code of Federal Regulations (30 CFR) requirements related to ground control at surface and underground metal and nonmetal mines. The course provides techniques for the recognition and correction of ground control hazards.

### **Contents:**

- ◆ Highwalls
- ◆ Stockpiles
- ◆ Basic Geology
- ◆ Rock Fixtures
- ◆ Surface Structures
- ◆ Underground Support
- ◆ Hazard Recognition
- ◆ Compliance Determination

**Course Length: 3 days**

***Scheduled upon request***



## **HAULAGE (SURFACE) (MNM)**

[HL302G] *INDUSTRY*

Haulage accidents have been one of the leading causes of fatal accidents for several years at our Nation's surface mines. This course teaches how to recognize the hazards that may exist in surface haulage.

### **Contents:**

- ◆ Compliance Determination of 30 CFR Parts 56/57.9000 and 56/57.14000
- ◆ Inspection Procedures for Surface Mining Equipment
- ◆ Use of Signs and Traffic Control on Mine Property
- ◆ Haul Road Design
- ◆ Brake Systems
- ◆ New Technology (Video Cameras)
- ◆ Rollover Protective Structures (ROPS)
- ◆ Falling Object Protective Structures (FOPS)
- ◆ Tire and Rim Safety
- ◆ Overview of Fatal Accidents

**Course Length: 3 days**

***Scheduled upon request***

## **HAULAGE (SURFACE) (COAL)**

[HL301C] *INDUSTRY*

Haulage accidents have been one of the highest categories of fatal accidents for several years at our Nation's surface mines. This course teaches the recognition of hazards that may exist in surface haulage.

### **Contents:**

- ◆ Compliance Determination of 30 CFR Parts 77.400 and 77.1600
- ◆ Inspection Procedures for Surface Mining Equipment
- ◆ Use of Signs and Traffic Control on Mine Property
- ◆ Haul Road Design
- ◆ Brake Systems
- ◆ New Technology (Video Cameras)
- ◆ Rollover Protective Structures (ROPS)
- ◆ Falling Object Protective Structures (FOPS)
- ◆ Tire and Rim Safety
- ◆ Overview of Fatal Accidents

**Course Length: 3 days**

***Scheduled upon request***

## INDUSTRIAL HYGIENE: SAMPLING FOR RESPIRABLE SILICA DUST AND NOISE

[IH621M] *INDUSTRY*

*(offered on site only)*

This class, developed in cooperation with the National Stone, Sand and Gravel Association, **is to be scheduled at your worksite**. It involves two days of classroom work and a full day of on-site sampling for silica and noise. It prepares miners and mine operators to conduct ongoing sampling. Results of noise sampling are available immediately; dust samples require analysis in the laboratory, and the cost of analysis is picked up by the mine operator.

### Contents:

- ◆ Hazards of Silica and Noise
- ◆ Introduction to Industrial Hygiene
- ◆ Sampling Equipment and Techniques Laboratory
- ◆ Record Keeping
- ◆ Calculations
- ◆ Controls

**Course Length: 3 days**

*Scheduled upon request with a minimum of 10 students and a maximum of 15.*

## **INSTRUCTOR TRAINING WORKSHOP (PART 48)**

**[GS641G] INDUSTRY**

This course is intended to improve the instructional skills, abilities, and knowledge of mine trainers. Participants will be required to select, develop, and present a 15-minute training segment on a health or safety topic in 30 CFR Part 48.

Approval as a Part 48 instructor is a two-part process. (1) You must demonstrate that you have knowledge of the subjects that you will be teaching. This is generally accomplished by submitting an application to your local MSHA District Manager showing your mining experience and education. (2) You must demonstrate that you have the ability to teach. Successful completion of this course will assist you in meeting this requirement. There are no prerequisites for this course. Mining experience is helpful.

### **Contents:**

- ◆ Principles of Adult Instruction
- ◆ Developing Objectives and Developing Criterion Test Items
- ◆ Outlining the Training Content
- ◆ Determining the Instructional Methods
- ◆ Developing and Using Training Aids
- ◆ Developing a Lesson Plan
- ◆ Using Facilitation Skills
- ◆ Part 48 Requirements

**Course Length: 3 days**

### **Dates:**

<b>November 5-7, 2024 Virtual</b>	<b>March 18-20 2025 On-Site</b>
<b>November 19-21, 2024 Virtual</b>	<b>April 8-10 2025 On-Site</b>
<b>December 3-5, 2024 On-Site</b>	<b>May 20-22 2025 On-Site</b>
<b>January 14-16, 2025 Virtual</b>	<b>June 10-12 2025 On-Site</b>
<b>January 28-30, 2025 Virtual</b>	<b>June 24-26 2025 On-Site</b>
<b>February 11-13, 2025 Virtual</b>	<b>July 29-31 2025 On-Site</b>
<b>February 25-27, 2025 Virtual</b>	<b>August 26-28 2025 On-Site</b>
	<b>September 16-18 2025 On-Site</b>

# **INTRODUCTION TO MINING**

[MS701G] *INDUSTRY*

The mining industry fulfills the important function of providing society's raw materials. Increasingly, mining has become more complex, due to rapid technological changes and comprehensive regulations. This complexity coupled with the industry's rich and traditional use of unique terminology can make understanding mining difficult for persons unfamiliar with it.

This course introduces participants to the broad scope of mining, and is for those with little or no mining knowledge. It will provide participants with a working understanding of the various aspects of the industry.

## **Contents:**

- ◆ Mining Terminology
- ◆ Mineral Exploration and Geology
- ◆ Description of the Different Mining Methods
- ◆ Coal Preparation and Mineral Processing

## **Health and Safety Regulations including:**

- ◆ Ground/Roof Control
- ◆ Ventilation and Dust Control
- ◆ Haulage and Hoisting
- ◆ Personal Protective Equipment
- ◆ Mapping
- ◆ Mine Examinations
- ◆ Electricity
- ◆ Explosives
- ◆ Industrial Hygiene

**Course Length: 1 day**

***Scheduled upon request***

## **MICROSOFT® EXCEL 2021 – ADVANCED**

**[CT702G] MSHA/INDUSTRY**

This course requires a prior knowledge of at least the Basic Excel course and includes hands-on work in the Computer Laboratory.

### **Covers the following more advanced Excel topics:**

- ◆ Work With Multiple Worksheet and Workbooks
- ◆ Use Lookup Functions and Formula Auditing
- ◆ Share and Protect Workbooks
- ◆ Automate Workbook Functionality
- ◆ Create Sparklines and Map Data
- ◆ Forecast Data

**Course Length: 2 days**

***Scheduled upon request***

## **MICROSOFT® EXCEL 2021 – BASIC**

**[CT700G] MSHA/INDUSTRY**

Microsoft® Excel 2021 is a spreadsheet program that can be used to organize, analyze and attractively present data, such as a budget or sales report. This course requires a prior knowledge of computers. Classroom activities include hands-on work in the Computer Laboratory.

### **Contents:**

- ◆ Excel Basics
- ◆ Enter and Edit Data
- ◆ Perform Calculations
- ◆ Modify a Worksheet
- ◆ Format a Worksheet
- ◆ Print Workbooks
- ◆ Manage Workbooks

**Course Length: 2 days**

***Scheduled upon request***

## **MICROSOFT® EXCEL 2021 – INTERMEDIATE**

### **[CT701G] MSHA/INDUSTRY**

Microsoft® Excel 2021 is a spreadsheet program that can be used to organize, analyze and attractively present data, such as a budget or sales report. This course requires a prior knowledge of computers and the Basic Excel course. Classroom activities include hands-on work in the Computer Laboratory.

#### **Contents:**

- ◆ Work With All Functions
- ◆ Work With Lists
- ◆ Analyze Data
- ◆ Visualize Data With Charts
- ◆ Use Pivot Tables and Pivot Charts

**Course Length: 2 days**

***Scheduled upon request***



## **MICROSOFT® POWERPOINT 2021 – BASIC**

**[CT711G] MSHA/INDUSTRY**

Microsoft® PowerPoint 2021 is a presentation program that allows users to create overhead slides, speaker notes, audience handouts and outlines -- all in a single presentation file. PowerPoint offers powerful tools to help create and organize a presentation step by step. This class includes hands-on work in the Computer Laboratory, and development of a sample presentation.

### **Contents:**

- ◆ Identify the Basic Features and Functions of PowerPoint
- ◆ Create a Presentation Using Suggested Content and a Design Template
- ◆ Browse Through a Presentation
- ◆ Perform Advanced Text Editing Operations
- ◆ Add Graphical Elements to your Presentation
- ◆ Modify Objects in Your Presentation
- ◆ Add Tables and Charts to Your Presentation
- ◆ Rearrange Slides in a Presentation
- ◆ Check Spelling and Presentation Styles
- ◆ View a Presentation
- ◆ Create a Folder to Store a Presentation
- ◆ Prepare to Deliver Your Presentation

**Course Length: 2 days**

***Scheduled upon request***

## **MICROSOFT® WORD 2021 – ADVANCED**

**[CT702G] MSHA/INDUSTRY**

Microsoft® Word 2021 is a word-processing program that is used to compose and update a wide range of business documents. It offers many desktop-publishing features that let you enhance the appearance of documents. This course requires a prior knowledge of computers. Classroom activities include hands-on work in the Computer Laboratory.

### **Contents:**

- ◆ Use Images in a Document
- ◆ Create Custom Graphic Elements
- ◆ Collaborate on Documents
- ◆ Add Reference Marks and Notes
- ◆ Secure a Document
- ◆ Create and Manipulate Forms
- ◆ Create Macros to Automate Tasks

**Course Length: 2 days**

***Scheduled upon request***

## **MICROSOFT® WORD 2021 – BASIC**

[CT703G] *MSHA/INDUSTRY*

Microsoft® Word 2021 is a word-processing program that is used to compose and update a wide range of business documents. It offers many desktop-publishing features that let you enhance the appearance of documents. Word also has the power and flexibility to produce professional documents quickly and easily. Classroom activities include hands-on work in the Computer Laboratory.

### **Contents:**

- ◆ Create a Document
- ◆ Format Text and Paragraphs
- ◆ Use Tools such as Find and Replace, Format Painter, and Styles
- ◆ Enhance Lists by Sorting, Renumbering, and Customizing List Styles
- ◆ Create and Format Tables
- ◆ Insert Graphic Objects into a Document, Including Symbols, Special Characters, Illustrations, Pictures, and Clip Art
- ◆ Format Appearance of a Page Through Borders and Colors, Watermarks, Headers and Footers, and Page Layout
- ◆ Use Word Features to help Identify and Correct Problems with Spelling, Grammar, Readability, and Accessibility

**Course Length: 2 days**

***Scheduled upon request***

## **MICROSOFT® WORD 2021 – INTERMEDIATE**

### **[CT704G] MSHA/INDUSTRY**

Microsoft® Word 2021 is a word-processing program that is used to compose and update a wide range of business documents. It offers many desktop-publishing features that let you enhance the appearance of documents. This course requires a prior knowledge of computers. Classroom activities include hands-on work in the Computer Laboratory.

#### **Contents:**

- ◆ Organize Content Using Tables and Charts
- ◆ Customize Formats Using Styles and Themes
- ◆ Insert Content Using Quick Parts
- ◆ Use Templates to Automate Document Formatting
- ◆ Control the Flow of a Document
- ◆ Simplify and Manage Long Documents
- ◆ Use Mail Merge to Create Letters, Envelopes, and Labels

**Course Length: 2 days**

***Scheduled upon request***

## **MINE ACCIDENT INVESTIGATION AND REPORT WRITING**

### **[IV301G] MSHA ONLY**

This course is designed for coal, metal/nonmetal, technical support, EPD, and other MSHA individuals. It covers the basic guidelines, procedures, and techniques used to investigate and report on accidents and other incidents involving health and safety in the mining industry.

Classroom activities and discussions cover reasons for investigations, the investigative process, data collection, accident reconstruction, proper analysis for corrective actions, and completion of investigative reports following MSHA guidelines and policies. At the end of the class the students will conduct a simulated accident investigation and prepare a report. **Students should bring their laptop computers or tablet.**

**\*Due to cumulative nature of course material, if a student misses any portion of the class, he/she may be required to return to a subsequent class. Enforcement students must have completed entry-level inspector training at least one year prior to the class date.**

#### **Contents:**

- ◆ Overview of Accident Investigation
- ◆ Pre-Investigation Activities
- ◆ Dealing with Family Members
- ◆ Accident Reconstruction
- ◆ Photography/Sketching
- ◆ Interviewing Techniques
- ◆ Data Collection and Evaluation
- ◆ Developing Conclusions and Corrective Actions
- ◆ Determining Root Causes/Report Writing

**Course Length: 8 days**

**Dates: January 28 - February 6, 2025**

**April 1-10, 2025**

**July 15-24, 2025**

## **MINE ACCIDENT INVESTIGATION TECHNIQUES FOR THE MINING INDUSTRY**

[IV604G] *INDUSTRY*

This course is directed towards safety directors, managers, foremen, union safety committee persons, state mine inspectors, or mining industry (metal/nonmetal or coal) individuals involved in accident investigation. Course content covers basic guidelines, procedures, and techniques for the preparation and handling of investigations of accidents and other incidents involving health and safety in the mining industry.

Classroom activities and discussions cover reasons for accident investigations, the investigative process, data collection, accident reconstruction, and proper analysis for corrective actions.

### **Contents:**

- ◆ Brief Review of MSHA's Accident Reporting Requirements
- ◆ Pre-Investigation Activities
- ◆ Accident Investigation Procedures
- ◆ Accident Scene Analysis
- ◆ Photography and Sketching
- ◆ Interviewing Techniques
- ◆ Finding Root Causes of Accidents
- ◆ Developing Corrective Actions

**Course Length: 2 day**

***Scheduled upon request with a minimum of 10***

# **MINE CONSTRUCTION, MAINTENANCE, AND REPAIRS SAFETY**

**[MS616G] *INDUSTRY***

This course is designed for the mining construction industry, related support groups, mining regulatory agencies, and others that are involved with the planning, design, and application of mine construction and maintenance activities.

## **Contents:**

- ◆ Accident Analysis and Prevention
- ◆ Effective Work Area Examinations
- ◆ Mobile Equipment Examinations
- ◆ Fall Prevention
- ◆ Basic Crane Safety
- ◆ Material Storage and Handling
- ◆ Conveyor Belt Safety
- ◆ Confined Space Safety
- ◆ Wire Ropes and Slings
- ◆ Surface Installations

**Course Length: 2 days**

***Scheduled upon request***

## **MINE EMERGENCY UNIT JOINT TRAINING**

**[MEU401] MSHA ONLY**

This course is designed for MSHA mine rescue personnel who are charged with responding to mine emergencies, such as mine fires, explosions, and inundations. The training strengthens the readiness of team members, sharpens their skills, and tests their knowledge in a series of specialized emergency scenarios. The training also develops team member proficiency using the equipment required and more importantly, acclimates team members to the Self-Contained Breathing Apparatus they will wear during a response through intense simulated mine emergency scenarios.

### **Event Agenda/Outline:**

- ◆ Practices and Procedures
- ◆ Rescue and Recover Strategy
- ◆ Response Briefing
- ◆ Specialized Exercises
- ◆ First Aid/Bench Apparatus/Equipment Preparation

**Course Length: 24 hours - 3 days**

**Dates: October 21-23, 2025**



## **MINE EMERGENCY UNIT JOINT TRAINING**

**[MEU402] MSHA ONLY**

This course is designed for MSHA mine rescue personnel who are associated with responding to mine emergencies, such as mine fires, explosions, and inundations. The training strengthens the readiness of team members, sharpens their skills, and tests their knowledge in a series of specialized emergency scenarios that focus on the deployment and function of the state-of-the-art Underground Communication System (UCS). The training also develops team member proficiency using the equipment required and more importantly, acclimates team members to the Self-Contained Breathing Apparatus they will wear during a response through intense simulated mine emergency scenarios, which involve UCS deployment.

### **Event Agenda/Outline:**

- ◆ Practices and Procedures
- ◆ Rescue and Recover Strategy
- ◆ Response Briefing
- ◆ Specialized Exercises
- ◆ Bench Apparatus/Equipment Preparation
- ◆ Underground Communication System Deployment and Function Procedures

**Course Length: 24 hours - 3 days**

**Dates: April 22-24, 2025**

## **MINE EXPLOSION PREVENTION**

[VN701C] *MSHA/INDUSTRY*

This course will review the causes and prevention of underground bituminous coal mine explosions. Students will learn to identify and address conditions which are known to cause or propagate explosions. Applicable Federal mining laws will be discussed and explained.

### **Content will include but not limited to:**

- ◆ Sources and Control of Coal Dust
- ◆ Accumulation of Combustible Material
- ◆ Rock Dust Application and Sampling

**Course Length: 1 day**

***Scheduled upon request***

# **MINE HOIST AND ELEVATOR INSPECTION PROGRAM TRAINING**

**[HS606G] MSHA/INDUSTRY**

This training module covers the inspection of mine hoist and elevators and the impact of the mine environment on critical hoist and elevator components. An emphasis will be made also on Mechanical Escape Facilities. It will enable the student to perform basic mine hoist and elevator inspections, focusing on critical safety concerns, including those identified in recent mine accidents. The material will be correlated to the applicable sections of 30 CFR, the ASME A17 Elevator Code, and a variety of information pertaining to wire ropes.

During the hands-on time, the student will be taught the proper way to measure a wire rope, when it is required, locations of measurements, and the “out of service” criteria for both wire ropes and their terminations. This course is for MSHA coal and metal/nonmetal mine safety and health inspectors and industry personnel.

## **Contents:**

- ◆ Wire Rope Technology
- ◆ Terminations and Attachments
- ◆ Removal Criteria According to 30 CFR
- ◆ A Review of the ASME A17 Elevator Code
- ◆ Hazard Recognition
- ◆ Inspection Procedure
- ◆ Citation and Order Writing

**Course Length: 3 days**

***Scheduled upon request***

## **MINE RESCUE TRAINING**

**[ME603G] INDUSTRY**

This course is designed for mine rescue teams and mining industry personnel who may be associated with responding to mine emergencies, such as mine fires, explosions, and inundations. The major part of the training involves participation in exercises in the Mine Simulation Laboratory.

### **Contents:**

- ◆ Mine Emergency Response Overview
- ◆ Mine Emergency Operations
- ◆ Mine Emergency Personnel
- ◆ Mine Emergency Communications and Decision Making
- ◆ Mine Emergency Practices and Procedures
- ◆ Mine Emergency Rescue and Recovery Strategy
- ◆ Tactical Implementation of Operations

**Course Length: 1 day**

***Scheduled upon request***

# **MINE RESCUE VISIO MAPPING AND MAP SCORING TRAINING**

[ME611G] *INDUSTRY*

This course is for all interested mine rescue team members, mine rescue problem designers, mine rescue map judges, and persons involved in mine accident investigation work. This class will be scaled and tailored to the students' specific needs. We will try to make the class as job related to each group as possible.

## **Contents:**

- ◆ Introduction to Microsoft® Visio and saving the completed map or drawing. This will include downloading templates and stencils from MSHA.GOV and importing stencils.
- ◆ Review of drawing a scaled map or drawing.
- ◆ Review of map symbols (stencils) used for both mine rescue maps and accident investigation drawings.
- ◆ Adding layers within a drawing and assigning objects to a layer.
- ◆ Mapping of items or conditions encountered by a mine rescue or accident investigation team.
- ◆ Introduction into mine rescue contest map scoring protocols and procedures, including the use of scanner for scanning and saving "hand drawn" paper maps.
- ◆ Each student will receive a laminated "Visio quick reference card" to assist them in learning the shortcuts related to Microsoft® Visio.

The Visio Electric Mapping and Map Scoring Class is an eight (8) hour class. Participants may bring their own computers that are equipped with Microsoft® Visio 2010 or 2013 to the training class or computers will be provided by the National Mine Academy.

**Course Length: 1 day**

***Scheduled upon request with a maximum of 6***

## **MINE VENTILATION**

[VN700C] *INDUSTRY*

This course will review the basic principles of underground coal mine ventilation along with applicable Federal mining laws.

### **Content will include but not limited to:**

- ◆ Mine Fans
- ◆ Mine Gases
- ◆ Air Readings
- ◆ Ventilation Plans
- ◆ Mine Maps
- ◆ Bleeders
- ◆ Seals
- ◆ Ventilation Control
- ◆ Face Ventilation
- ◆ Outby Ventilation

**Course Length: 2 days**

***Scheduled upon request***

## **MSHA ACCIDENT INVESTIGATION RETRAINING**

**[IV782G] MSHA ONLY**

This course is intended for MSHA accident investigators who have already completed the 8-day Mine Accident Investigation and Report Writing class (IV301G). This course will refresh and enhance the skills of MSHA accident investigators, and cover recent updates to accident investigation policies and procedures. Specific topics to be covered each year will vary in accordance with the needs of the agency.

**Course Length: 3 days**

**Date: November 4-6, 2025**

## **MSHA DAM SAFETY SPECIALIST TRAINING JOURNEYMAN**

**[IM01JM] MSHA, OTHER FEDERAL,  
AND STATE ATTENDEES ONLY**

This course is designed for MSHA Impoundment Specialists to enhance their training and inspection skills. The course is customized annually to ensure inspectors are up-to-date on new policy and procedures.

**Course Length: 3 days**

**Date: May 13-15, 2025**



## **NOISE HAZARDS, REGULATION, AND CONTROL**

### **[IH321G] INDUSTRY**

This course provides the participant with information on the hazards associated with overexposure to noise. It thoroughly reviews 30 CFR Part 62 and appropriate monitoring and control methods. The course also discusses the elements of an effective hearing conservation program.

#### **Contents:**

- ◆ Characteristics of Noise
- ◆ Impact of Noise on Health
- ◆ Noise Monitoring
- ◆ Sound Level Meters
- ◆ Dosimeters
- ◆ Octave Band Analysis
- ◆ Audiometric Examinations
- ◆ Noise Regulation - Compliance Discussion
- ◆ Exposure Levels
- ◆ Monitoring
- ◆ Hearing Conservation Programs
- ◆ Training Requirements
- ◆ Control Methods

**Course Length: 3 days**

***Scheduled upon request***

## **OFF-ROAD TIRE SAFETY**

### **[HL608G] MSHA/INDUSTRY**

This course is designed for the mining, construction, industrial industries, related support groups, mining regulatory agencies, and others that are involved with application of mine construction, maintenance, and inspection of off-road tires. Thirty-six miners have lost their lives in the last twenty years due to off-road tire ruptures.

#### **Contents:**

- ◆ Accident Analysis and Prevention
- ◆ Effective Work Area Examinations
- ◆ Zones of Tires
- ◆ Tread, Crown, Sidewall, Bead Zone Examinations
- ◆ Identification of Common Tire Examinations
- ◆ Method of Examination
- ◆ Damage Zone Examples

**Course Length: 6 hours**

***Scheduled upon request***

## **QUALIFICATION FOR IMPOUNDMENT INSPECTION**

### **[IM601C] MSHA/INDUSTRY**

This course provides the initial training for personnel who are required to inspect impoundments. Successful completion of this course qualifies the participant to inspect impoundments as required by the Code of Federal Regulations [30 CFR 77.216-3(g)].

**Please Note: MSHA Qualification and Certification no longer accepts Social Security Numbers on the application form that you must fill out in order to receive your qualification for impoundment inspection card after successful completion of the course. You will need an MSHA Individual Identification Number, available by applying online at:**

**<http://www.msha.gov/forms/elawsforms/5000-46.htm>**

#### **Contents:**

Introductory training on:

- ◆ Recognizing Deficiencies and Signs of Distress
- ◆ Failure Modes
- ◆ Foundation Analysis
- ◆ Geotechnical Investigation
- ◆ Breakthrough Potential Analysis
- ◆ Common Instrumentation
- ◆ Facility Configurations
- ◆ Field Hazard Classifications
- ◆ Reporting Requirements
- ◆ Inspection Forms

**Course Length: 8 hours**

**Dates: March 27, 2025**

**June 12, 2025**

**August 21, 2025**

## **ROOF CONTROL SPECIALISTS TRAINING**

**[RC401C] MSHA ONLY**

This training will update roof control specialists on new products and methods related to roof stability. It will also include presentations by personnel from Technical Support, MSHA headquarters, and other government agencies. All subjects will incorporate safe mining practices which will help reduce roof fall injuries and fatalities.

The training will discuss new roof control techniques, trends, developments, and new policy letters, program information bulletins, and procedure instruction letters related to inspections and the health and safety of the miner.

**Course Length: 3 days**

**Dates: April 8-10, 2025**

## **SLOPE AND SHAFT SINKING SAFETY**

[RC310G] *MSHA/INDUSTRY*

This course will include a description of the most common conventional slope and shaft construction process, the hazards associated with slope and shaft work, and inspection procedures. It will also discuss the hazards associated with hoisting and cover the inspection procedures for wire ropes.

### **Contents:**

- ◆ Slope and Shaft Construction Process
- ◆ Ventilation
- ◆ Ground Control
- ◆ Hoisting
- ◆ Electrical
- ◆ Health
- ◆ Slope and Shaft Sinking Plans
- ◆ Inspection Guidelines
- ◆ Hazard Identification

**Course Length: 2 days**

***Scheduled upon request***

## **SPECIAL INVESTIGATORS RECERTIFICATION**

**[IV402G] MSHA ONLY**

The Special Investigator (SI) specialist training class will provide initial training to ensure the investigator has a thorough understanding of Sections 105(c), 108, 110(c) and 110(d) of the Mine Act. The course will also provide instruction in interview techniques, evidence collection, and various other skills necessary to perform the duties of a Special Investigator. It will include instruction and presentations by TCIO, MSHA Headquarters, agents from the FBI, and other presenters when available.

**Course Length: 8 days**

**Date: TBD**

## **SPECIAL INVESTIGATORS TRAINING**

**[IV402G] MSHA ONLY**

The Special Investigators (SI) class consists of two modules with Module I focusing on Sections 105(c) and 108 of the Mine Act as well as interview techniques and Module II focusing on Sections 110(c) and 110(d) of the Mine Act as well as evidence collection. This training will ensure the investigator understands the nature of the discrimination provisions of the Mine Act and will be able to define and describe the parameters of the protections afforded to miners, miners' representatives, and applicants for mining positions.

Participants will learn to recognize the components of Section 105(c), and be able to describe the rights provided to miners and the processes under the separate sections of the discrimination law appearing in the Act. The class will examine how to receive and process complaints under Section 105(c) of the Mine Act and present unique issues of case law, i.e., job refusal and temporary reinstatement. They will be able to identify, describe, and define Section 108, the injunctive relief criteria and will understand the extraordinary relief provided in the forms of permanent or temporary injunctions and temporary restraining orders.

Participants will be able to identify, describe, and define the relationships between Section 110 and the other provisions of the Mine Act; will recognize the various parts of Section 110 falling within their investigative authorities; and will be able to identify and describe the principles involved in and related to civil and criminal liabilities under Sections 110(c) and 110(d). Participants will also gain an understanding of Section 111 and Section 428 Black Lung Benefit Act.

**Course Length: 3 days**

**Date: TBD**

## **SURFACE FACILITIES AND COAL PREPARATION**

[PP601C] *INDUSTRY*

This course is designed to familiarize the student with equipment and processes used in coal preparation plants; hazards that might exist around preparation plants; and inspection requirements for such plants. This course has been expanded to include structural safety in an effort to eliminate surface structural failures in the mining industry.

### **Contents:**

- ◆ Structural Safety
- ◆ Equipment Guarding
- ◆ Stockpile Safety
- ◆ Delivery Methods to the Plant
- ◆ Crushing, Sizing, and Washing Processes
- ◆ Dewatering and Drying
- ◆ Storage of Raw and Clean Coal
- ◆ Potential Hazards
- ◆ Preparation Plant Inspection

**Course Length: 3 days**

***Scheduled upon request***



**TAILINGS DAM AND WASTE PILE  
INSPECTION – METAL/NONMETAL**  
[IM301G] *INDUSTRY*

This course will introduce the student to the general safety considerations for the design, construction, maintenance, and inspection of dams and waste piles.

**Contents:**

- ◆ Typical Geotechnical Investigations
- ◆ Foundation Analysis
- ◆ Breakthrough Potential Analysis
- ◆ Stability Analysis and Safety Factors
- ◆ Hydrologic and Hydraulic Considerations
- ◆ Construction Monitoring
- ◆ Identification of Deficiencies
- ◆ General Methods of Remediation
- ◆ Applicable Regulations

**Course Length: 3 days**

***Scheduled upon request***

## **UNDERGROUND DIESEL EQUIPMENT/VENTILATION**

[VN321C] *INDUSTRY*

This course provides the participants with techniques to conduct an evaluation of existing underground diesel mining equipment. Basic air sampling principles will be presented. The impact of diesel equipment on the mine ventilation system and the mine ventilation plan will be discussed. The health hazards associated with diesel equipment and diesel fuel will be examined.

Primary emphasis will focus on the Code of Federal Regulations (30 CFR) related to underground mining operations. The class will integrate technology with case studies and basic laboratory work.

### **Contents:**

- ◆ Code of Federal Regulations Review
- ◆ Air Sampling Procedures
- ◆ Introduction to Basic Air Flow Measurement Techniques
- ◆ Equipment
- ◆ Health Hazards
- ◆ Proper Health Sampling Techniques
- ◆ Review of Diesel Technology

**Course Length: 1 day**

***Scheduled upon request***

# **UNDERGROUND VENTILATION FOR METAL AND NONMETAL MINES**

**[VN303M] *INDUSTRY***

This course is designed to assist metal/nonmetal miners in the recognition and evaluation of health hazards and effective ventilation methods to eliminate these hazards.

## **Contents:**

- ◆ Airborne Contaminants
- ◆ Sampling and Detecting Devices
- ◆ Hazard Controls
- ◆ Mine Maps
- ◆ Recognition of Areas That May Have Poor Air Quality
- ◆ Measuring Air Quantities
- ◆ Review of Ventilation Regulations

**Course Length: 2 days**

***Scheduled upon request***

## **VENTILATION SPECIALISTS TRAINING**

**[JM401C] *MSHA ONLY***

This course is designed for MSHA Ventilation Specialists to enhance their training and inspection skills. The course is customized annually to ensure inspectors are up-to-date on new policy and procedures.

**Course Length: 3 days**

**Dates: April 15-17, 2025**

## **WORKPLACE EXAMINATIONS**

[VN611G] *INDUSTRY*

This course is designed for mine examiners. Discussion will focus on what the examiner should be looking for during a workplace examination. Applicable Federal mining laws will be discussed and explained.

### **Content will include but not limited to:**

- ◆ Pre-shift Examinations
- ◆ Supplemental Examinations
- ◆ On-Shift Examinations
- ◆ Weekly Examinations
- ◆ Hazard Identifications

**Course Length: 1 day**

***Scheduled upon request***

## MSHA Training

All newly hired MSHA mine safety and health inspectors receive entry-level training. This training covers technical aspects of mine inspection and additional topics such as effective communications and professionalism.

Entry-level MSHA inspectors will receive seven modules of instruction (24 weeks total) at the Academy in conjunction with required web-based training and on-the-job training (OJT) sessions in the field.

This in-depth training is designed specifically for newly hired MSHA inspectors; however, it can be greatly beneficial to industry personnel wishing to gain more knowledge in mine safety training.

MSHA Journeyman inspectors are required 48 hours of re-training every two years to ensure that they remain up-to-date on current policy and procedure.

### **For more information please contact:**

Cheryl Stevens  
Department of Instructional Services  
National Mine Health and Safety Academy  
1301 Airport Road  
Beaver, West Virginia 25813-9426

TELEPHONE: (304) 256-3236 FAX: (304) 256-3247

E-MAIL: [stevens.cheryl@dol.gov](mailto:stevens.cheryl@dol.gov)

# NEED MORE INFO? CONTACT:

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## Enrollment Form

Please complete this form and return to:

National Mine Health and Safety Academy  
ATTN: Student Services Branch  
1301 Airport Road, Beaver, West Virginia 25813-9426

I plan to attend the \_\_\_\_\_  
course on the following dates: \_\_\_\_\_

Arrival Date: \_\_\_\_\_

Departure Date: \_\_\_\_\_

☐ I will    ☐ I will not need lodging on these dates.

**Name:** \_\_\_\_\_  
(LAST) (FIRST) (MIDDLE)

**Title:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_

**State:** \_\_\_\_\_ **Zip Code:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_  
(area code) (area code)

**E-mail address:** \_\_\_\_\_

***Confirmation will be emailed or faxed to you.***

Confirmed by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Suggestion Form for New Courses

The National Mine Health and Safety Academy is committed to bring you the very best courses, seminars, and materials to meet your needs. To do this we need your help.

Please use the space below to let us know what you would like.

New courses or variations on existing courses:

Seminars: \_\_\_\_\_

\_\_\_\_\_

Materials: \_\_\_\_\_

\_\_\_\_\_

Area of interest: *Check those of interest.*

☐ Coal - Surface

☐ Coal - Underground

☐ Metal/Nonmetal - Surface

☐ Metal/Nonmetal - Underground

☐ Both

☐ Other (specify) \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_ Fax: \_\_\_\_\_  
(area code) (area code)

E-mail address: \_\_\_\_\_

Please complete this form and return to:

National Mine Health and Safety Academy  
ATTN: Department of Instructional Services  
1301 Airport Road, Beaver, West Virginia 25813-9426

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## Other Available Catalogs

The Academy also has an electronic Catalog of Training Products for the Mining Industry. To obtain a copy of the products catalog, or additional copies of this catalog, please visit [www.msha.gov](http://www.msha.gov).

***Please note: Catalogs including Training Products are also available online at [www.msha.gov](http://www.msha.gov)***

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National Mine Health and Safety Academy  
1301 Airport Road  
Beaver, West Virginia 25813-9426

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