Part 48.28 Required topics

(1) Mandatory health and safety standards. The course shall include mandatory health and safety standard requirements which are related to the miner's tasks.

(2) Transportation controls and communication systems. The course shall include instruction on the procedures for riding on and in mine conveyances; the controls in effect for the transportation of miners and materials; and the use of the mine communication systems, warning signals, and directional signs.

Learning Objectives

A. List specific laws and regulations which apply to their mine.
B. Describe the safety standard requirements that are related to the miner's tasks and work area.

A. Describe the traffic controls and procedures used at this mine site.
B. Describe the procedure for riding on and in mine conveyances.
C. Identify hazards associated with mine haulage.
D. Define effective communications.
E. List the methods of communications used at this site.
F. Describe the use of all communication systems according to company policy.
G. Identify warning signals and directional signs used at this mine site.
Learning Objectives

(3) Escape and emergency evacuation plans; firewarning and firefighting. The course shall include a review of the mine escape system; escape and emergency evacuation plans in effect at the mine; and instruction in the firewarning signals and firefighting procedures.

A. Describe fire and emergency alarms used in each work area.
B. Identify escapeways from each work area.
C. Describe mine emergency procedures.
D. State individual responsibilities according to the mine emergency plan(s).
E. List the types of fires.
F. Given a type of fire, choose the proper extinguishing agent.
G. Describe/Demonstrate the proper use of firefighting equipment used at this site.
H. Describe/Demonstrate examination of firefighting equipment according to 30 CFR,
I. List locations and activities that require fire extinguishers.
J. Identify classification symbols used on fire extinguishers.
K. Identify the UL rating of fire extinguishers.

(4) Ground control; working in areas of highwalls, water hazards, pits, and spoil banks; illumination and night work. The course shall include, where applicable, a review and instruction on the highwall and ground control plans in effect at the mine; procedures for working safely in areas of highwalls, water hazards, pits, and spoil banks; the illumination of work areas; and safe work procedures during hours of darkness.

A. Describe the requirements of the ground control plan.
B. Identify what shall be examined when inspecting a highwall.
C. Describe procedures for working safely in areas of highwalls, water hazards, pits, stockpiles and spoil banks.
D. Identify the requirements when working near water hazards.
E. Describe the requirements for illumination.
F. State the safe work practices to be used during hours of darkness.
(5) First aid. The course shall include a review of first aid methods acceptable to MSHA.

A. Evaluate scene safety.
B. Describe personal safety in regard to bloodborne pathogens.
C. Perform/Describe patient assessment.
D. Perform/Describe artificial respiration.
E. Perform/Describe control of bleeding.
F. Perform/Describe treatment of shock.
G. Perform/Describe treatment of wounds.
H. Perform/Describe treatment of burns.
I. Perform/Describe treatment of musculoskeletal injuries.
J. Perform/Describe other skills as required and acceptable to MSHA.

(6) Electrical hazards. The course shall include recognition and avoidance of electrical hazards.

A. Identify electrical hazards at this mine site.
B. Explain the lock-out/tag-out policy
C. List who can work on electrical equipment.
D. Describe procedures for reporting/correcting electrical problems.
E. Identify other sources of hazardous energy that must also be controlled.
Learning Objectives

(7) Prevention of accidents. The course shall include a review of accidents and causes of accidents, and instruction in accident prevention in the work environment.

A. Describe common accident causes and methods of prevention at this mine site.
B. Describe the proper use of hand and power tools.
C. Describe the requirements for fall protection.
D. Identify confined spaces and “permit” required confined spaces.
E. Explain proper procedures to enter and work in a confined space and a “permit” required confined space.
F. Describe proper methods for material handling.
G. Identify machines/pinchpoints that require guarding.

(8) Health. The course shall include instruction on the purpose of taking dust measurements, where applicable, and noise and other health measurements, and any health control plan in effect at the mine shall be explained. The health provisions of the Act and warning labels shall also be explained.

A. Describe the purpose of noise, dust, and other health measurements as required by Company policy and CFR 30.
B. Identify the requirements of the dust control and noise conservation plans as required for this site.
C. List the health provisions of the 1977 Act.
D. Describe the warning labels and signs as required by company policy and CFR 30.

(9) Explosives. The course shall include a review and instruction on the hazards related to explosives. The only exception to this course component is when there are no explosives used or stored on the mine property.

A. Describe the type of explosives used at this mine and the potential hazards they present.
B. List the requirements for all explosive magazines used at this mine.
C. Identify the persons qualified to handle explosives at this mine.
D. Describe the blasting procedures used at this mine site.
E. State the procedures for dealing with a misfire.
(10) Self-rescue and respiratory devices. The course shall include instruction and demonstration in the use, care, and maintenance of self-rescue and respiratory devices, where applicable.

A. State when and where respirators/self-rescuers are required on this mine site
B. Explain selection criteria for a respirator.
C. Demonstrate/Describe proper donning of respirator.
D. Explain how to identify “end of service life” of filter or cartridge.
E. Explain why a fit test is important.
F. Demonstrate/describe proper care, use and maintenance of respirators
G. Demonstrate proper donning of self-rescuer, if applicable.
H. Demonstrate/Describe the proper care, use inspection and maintenance of self-rescuers, if applicable.