

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 for miners during hours of darkness.

(7) *Hazard recognition.* The course must include the recognition and avoidance of hazards present in the mine.

(8) *Prevention of accidents.* The course must include a review of the general causes of accidents applicable to the mine environment, causes of specific accidents at the mine, and instruction in accident prevention in the work environment.

(9) *Emergency medical procedures.* The course must include instruction on the mine's emergency medical arrangements and the location of the mine's first aid equipment and supplies.

(10) *Health.* The course must include instruction on the purpose of taking dust, noise, and other health measurements, where applicable; must review the health provisions of the Act; and must explain warning labels and any health control plan in effect at the mine.

(11) *Health and safety aspects of the tasks to which the experienced miner is assigned.* The course must include instruction in the health and safety aspects of the tasks assigned, including the safe work procedures of such tasks, information about the physical and health hazards of chemicals in the miner's work area, the protective measures a miner can take against these hazards, and the contents of the mine's HazCom program. Experienced miners who must complete new task training under § 48.27 do not need to take training under this paragraph.

(12) Such other courses as may be required by the District Manager based on circumstances and conditions at the mine.

(c) The operator may include instruction in additional safety and health subjects based on circumstances and conditions at the mine.

(d) The training time spent on individual subjects must vary depending upon the training needs of the miners.

(e) Any miner returning to the same mine, following an absence of 12

months or less, must receive training on any major changes to the mine environment that have occurred during the miner's absence and that could adversely affect the miner's health or safety.

(1) A person designated by the operator who is knowledgeable of these changes must conduct the training in this paragraph. An MSHA approved instructor is not required to conduct the training outlined in this paragraph.

(2) No record of this training is required.

(3) The miner must complete annual refresher training as required in § 48.28, if the miner missed taking that training during the absence.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23641, May 28, 1982; 63 FR 53760, Oct. 6, 1998; 67 FR 42389, June 21, 2002]

§ 48.27 Training of miners assigned to a task in which they have had no previous experience; minimum courses of instruction.

(a) Miners assigned to new work tasks as mobile equipment operators, drilling machine operators, haulage and conveyor systems operators, ground control machine operators, and those in blasting operations shall not perform new work tasks in these categories until training prescribed in this paragraph and paragraph (b) of this section has been completed. This training shall not be required for miners who have been trained and who have demonstrated safe operating procedures for such new work tasks within 12 months preceding assignment. This training shall also not be required for miners who have performed the new work tasks and who have demonstrated safe operating procedures for such new work tasks within 12 months preceding assignment. The training program shall include the following:

(1) *Health and safety aspects and safe operating procedures for work tasks, equipment, and machinery.* The training shall include instruction in the health and safety aspects and safe operating procedures related to the assigned task, including information about the physical and health hazards of chemicals in the miner's work area, the protective measures a miner can take against these hazards, and the contents

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of the mine's HazCom program. The training shall be given in an on-the-job environment; and

(2)(i) *Supervised practice during non-production.* The training shall include supervised practice in the assigned tasks, and the performance of work duties at times or places where production is not the primary objective; or,

(ii) *Supervised operation during production.* The training shall include, while under direct and immediate supervision and production is in progress, operation of the machine or equipment and the performance of work duties.

(3) *New or modified machines and equipment.* Equipment and machine operators shall be instructed in safe operating procedures applicable to new or modified machines or equipment to be installed or put into operation in the mine, which require new or different operating procedures.

(4) Such other courses as may be required by the District Manager based on circumstances and conditions at the mine.

(b) Miners under paragraph (a) of this section shall not operate the equipment or machine or engage in blasting operations without direction and immediate supervision until such miners have demonstrated safe operating procedures for the equipment or machine or blasting operation to the operator or the operator's agent.

(c) Miners assigned a new task not covered in paragraph (a) of this section shall be instructed in the safety and health aspects and safe work procedures of the task, including information about the physical and health hazards of chemicals in the miner's work area, the protective measures a miner can take against these hazards, and the contents of the mine's HazCom program, prior to performing such task.

(d) All training and supervised practice and operation required by this section shall be given by a qualified trainer, or a supervisor experienced in the assigned tasks, or other person experienced in the assigned tasks.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23640, May 28, 1982; 67 FR 42389, June 21, 2002]

§ 48.28 Annual refresher training of miners; minimum courses of instruction; hours of instruction.

(a) Each miner shall receive a minimum of 8 hours of annual refresher training as prescribed in this section.

(b) The annual refresher training program for all miners shall include the following courses of instruction:

(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.

(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.

(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.

(5) *First aid.* The course shall include a review of first aid methods acceptable to MSHA.

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

(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.

(8) *Health.* The course shall include instruction on the purpose of taking dust measurements, where applicable,