

TABLE 47.91—CHEMICALS AND PRODUCTS EXEMPT FROM THIS HAZCOM STANDARD—Continued

Exemption	Conditions for exemption
Biological hazards .....	(2) Poses no physical or health risk to exposed miners. All biological hazards, such as poisonous plants, insects, and micro-organisms.
Consumer product or hazardous substance regulated by CPSC.	(1) If the miner uses it for the purpose the manufacturer intended; and  (2) Such use does not expose the miner more often and for longer periods than <i>ordinary consumer use</i> . When intended for personal consumption or use.
Cosmetics, drugs, food, food additive, color additive, drinks, alcoholic beverages, tobacco and tobacco products, or medical or veterinary device or product, including materials intended for use as ingredients in such products (such as flavors and fragrances).	
Radiation .....	All ionizing or non-ionizing radiation, such as alpha or gamma, microwaves, or x-rays.
Wood or wood products, including lumber .....	If they do not release or otherwise result in exposure to a hazardous chemical under normal conditions of use. For example, wood is not exempt if it is treated with a hazardous chemical or if it will be subsequently cut or sanded.

**§ 47.92 Exemptions from labeling.**

A hazardous chemical is exempt from subpart E of this part under the condi-

tions described in Table 47.92 as follows:

TABLE 47.92—HAZARDOUS CHEMICALS EXEMPT FROM LABELING

Exemption	Conditions for exemption
Chemical substance, consumer product, hazardous substance, or pesticide.	When kept in its manufacturer's or supplier's original packaging labeled under other federal labeling requirements.
Hazardous substance .....	When the subject of remedial or removal action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) in accordance with EPA regulations.
Hazardous waste .....	When regulated by EPA under the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act.
Raw material being mined or processed ...	While on mine property, except when the container holds a mixture of the raw material and another hazardous chemical and the mixture is found to be hazardous under § 47.21—Identifying hazardous chemicals.
Wood or wood products, including lumber	Wood or wood products are always exempt from labeling.

[67 FR 42383, June 21, 2002; 67 FR 42366, Sept. 11, 2002; 67 FR 63255, Oct. 11, 2002]

## PART 48—TRAINING AND RETRAINING OF MINERS

### Subpart A—Training and Retraining of Underground Miners

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AUTHORITY: 30 U.S.C. 811, 825.

SOURCE: 43 FR 47459, Oct. 13, 1978, unless otherwise noted.

### Subpart A—Training and Retraining of Underground Miners

#### § 48.1 Scope.

The provisions of this subpart A set forth the mandatory requirements for submitting and obtaining approval of programs for training and retraining miners working in underground mines. Requirements regarding compensation for training and retraining are also included. The requirements for training and retraining miners working at surface mines and surface areas of underground mines are set forth in subpart B of this part.

#### § 48.2 Definitions.

For the purposes of this subpart A—

(a)(1) *Miner* means, for purposes of §§ 48.3 through 48.10 of this subpart A, any person working in an underground mine and who is engaged in the extraction and production process, or engaged in shaft or slope construction, or who is regularly exposed to mine hazards, or who is a maintenance or service worker employed by the operator or a maintenance or service worker contracted by the operator to work at the mine for frequent or extended periods. This definition shall include the operator if the operator works underground on a continuing, even if irregular basis. Short-term, specialized contract workers, such as drillers and blasters, who are engaged in the extraction and production process or engaged in shaft or slope construction and who have re-

ceived training under § 48.6 (Experienced miner training) of this subpart A may, in lieu of subsequent training under that section for each new employment, receive training under § 48.11 (Hazard training) of this subpart A. This definition does not include:

(i) Workers under subpart C of this part 48, engaged in the construction of major additions to an existing mine which requires the mine to cease operations;

(ii) Any person covered under paragraph (a)(2) of this section.

(2) *Miner* means, for purposes of § 48.11 (Hazard training) of this subpart A, any person working in an underground mine, including any delivery, office, or scientific worker or occasional, short-term maintenance or service worker contracted by the operator, and any student engaged in academic projects involving his or her extended presence at the mine. This definition excludes persons covered under paragraph (a)(1) of this section and subpart C of this part.

(b) *Experienced miner* means:

(1) A miner who has completed MSHA-approved new miner training for underground miners or training acceptable to MSHA from a State agency and who has had at least 12 months of underground mining experience; or

(2) A supervisor who is certified under an MSHA-approved State certification program and who is employed as an underground supervisor on October 6, 1998; or

(3) An experienced underground miner on February 3, 1999.

(4)(i) A person employed as an underground shaft or slope construction worker on June 28, 2006; or

(ii) A person who has six months of underground shaft or slope experience within 24 months before June 28, 2006.

(c) *New miner* means a miner who is not an experienced miner.

(d) *Normal working hours* means a period of time during which a miner is otherwise scheduled to work. This definition does not preclude scheduling training classes on the sixth or seventh working day if such a work schedule has been established for a sufficient period of time to be accepted as the operator's common practice. Miners shall

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be paid at a rate of pay which shall correspond to the rate of pay they would have received had they been performing their normal work tasks.

(e) *Operator* means any owner, lessee, or other person who operates, controls or supervises an underground mine; or any independent contractor identified as an operator performing services or construction at such mine.

(f) *Task* means a work assignment that includes duties of a job that occur on a regular basis and which requires physical abilities and job knowledge.

(g) *Act* means the Federal Mine Safety and Health Act of 1977.

[43 FR 47459, Oct. 13, 1978, as amended at 63 FR 53759, Oct. 6, 1998; 70 FR 77727, Dec. 30, 2005]

#### **§ 48.3 Training plans; time of submission; where filed; information required; time for approval; method for disapproval; commencement of training; approval of instructors.**

(a) Except as provided in paragraphs (o) and (p) of this section, each operator of an underground mine shall have an MSHA approved plan containing programs for training new miners, training experienced miners, training miners for new tasks, annual refresher training, and hazard training for miners as follows:

(1) In the case of an underground mine which is operating on the effective date of this subpart A, the operator of the mine shall submit such plan for approval within 90 days after the effective date of this subpart A.

(2) Within 60 days after the operator submits the plan for approval, unless extended by MSHA, the operator shall have an approved plan for the mine.

(3) In the case of a new underground mine which is to be opened or a mine which is to be reopened or reactivated after the effective date of this subpart A, the operator shall have an approved plan prior to opening the new mine, or reopening or reactivating the mine.

(b) The training plan shall be filed with the District Manager for the area in which the mine is located.

(c) Each operator shall submit to the District Manager the following information:

(1) The company name, mine name, and MSHA identification number of the mine.

(2) The name and position of the person designated by the operator who is responsible for health and safety training at the mine. This person may be the operator.

(3) A list of MSHA approved instructors with whom the operator proposes to make arrangements to teach the courses, and the courses each instructor is qualified to teach.

(4) The location where training will be given for each course.

(5) A description of the teaching methods and the course materials which are to be used in training.

(6) The approximate number of miners employed at the mine and the maximum number who will attend each session of training.

(7) The predicted time or periods of time when regularly scheduled refresher training will be given. This schedule shall include the titles of courses to be taught, the total number of instruction hours for each course, and the predicted time and length of each session of training.

(8) For the purposes of § 48.7 (New task training of miners) of this subpart A, the operator shall submit:

(i) A complete list of task assignments to correspond with the definition of “task” in § 48.2 (f) of this subpart A.

(ii) The titles of personnel conducting the training for this section.

(iii) The outline of training procedures used in training miners in those work assignments listed according to paragraph (c)(8)(i) of this section.

(iv) The evaluation procedures used to determine the effectiveness of training under § 48.7 of this subpart A.

(d) The operator shall furnish to the representative of the miners a copy of the training plan two weeks prior to its submission to the District Manager. Where a miners’ representative is not designated, a copy of the plan shall be posted on the mine bulletin board 2 weeks prior to its submission to the District Manager. Written comments received by the operator from miners or their representatives shall be submitted to the District Manager. Miners or their representatives may submit

written comments directly to the District Manager.

(e) All training required by the training plan submitted to and approved by the District Manager as required by this subpart A shall be subject to evaluation by the District Manager to determine the effectiveness of the training programs. If it is deemed necessary, the District Manager may require changes in, or additions to, programs. Upon request from the District Manager the operator shall make available for evaluation the instructional materials, handouts, visual aids and other teaching accessories used or to be used in the training programs. Upon request from the District Manager the operator shall provide information concerning the schedules of upcoming training.

(f) The operator shall make a copy of the MSHA approved training plan available at the mine site for MSHA inspection and for examination by the miners and their representatives.

(g) Except as provided in § 48.7 (New task training of miners) and § 48.11 (Hazard training) of this subpart A, all courses shall be conducted by MSHA approved instructors.

(h) Instructors shall be approved by the District Manager in one or more of the following ways:

(1) Instructors shall take an instructor's training course conducted by the District Manager or given by persons designated by the District Manager to give such instruction; and instructors shall have satisfactorily completed a program of instruction approved by the Office of Educational Policy and Development, MSHA, in the subject matter to be taught.

(2) Instructors may be designated by MSHA as approved instructors to teach specific courses based on written evidence of the instructors' qualifications and teaching experience.

(3) At the discretion of the District Manager, instructors may be designated by MSHA as approved instructors to teach specific courses based on the performance of the instructors while teaching classes monitored by MSHA. Operators shall indicate in the training plans submitted for approval whether they want to have instructors approved based on monitored performance. The District Manager shall con-

sider such factors as the size of the mine, the number of employees, the mine safety record and remoteness from a training facility when determining whether instructor approval based on monitored performance is appropriate.

(4) On the effective date of this subpart A, cooperative instructors who have been designated by MSHA to teach MSHA approved courses and who have taught such courses within the 24 months prior to the effective date of this subpart shall be considered approved instructors for such courses.

(i) Instructors may have their approval revoked by MSHA for good cause which may include not teaching a course at least once every 24 months. Before any revocation is effective, the District Manager must send written reasons for revocation to the instructor and the instructor shall be given an opportunity to demonstrate or achieve compliance before the District Manager on the matter. A decision by the District Manager to revoke an instructor's approval may be appealed by the instructor to the Administrator for Coal Mine Safety and Health or Administrator for Metal and Nonmetal Mine Safety and Health, as appropriate, MSHA, 201 12th Street South, Arlington, VA 22202-5452. Such an appeal shall be submitted to the Administrator within 5 days of notification of the District Manager's decision. Upon revocation of an instructor's approval, the District Manager shall immediately notify operators who use the instructor for training.

(j) The District Manager for the area in which the mine is located shall notify the operator and the miners' representative, in writing, within 60 days from the date on which the training plan is filed, of the approval or status of the approval of the training programs.

(1) If revisions are required for approval, or to retain approval thereafter, the revisions required shall be specified to the operator and the miners' representative and the operator and the miners' representative shall be afforded an opportunity to discuss the revisions with the District Manager, or to propose alternate revisions or

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changes. The District Manager, in consultation with the operator and the representative of the miners, shall fix a time within which the discussion will be held, or alternate revisions or changes submitted, before final approval is made.

(2) The District Manager may approve separate programs of the training plan and withhold approval of other programs, pending discussion of revisions or submission of alternate revisions or changes.

(k) Except as provided under § 48.8(c) (Annual refresher training of miners) of this subpart A, the operator shall commence training of miners within 60 days after approval of the training plan, or approved programs of the training plan.

(1) The operator shall notify the District Manager of the area in which the mine is located, and the miners' representative of any changes or modifications the operator proposes to make in the approved training plan. The operator shall obtain the approval of the District Manager for such changes or modifications.

(m) In the event the District Manager disapproves a training plan or a proposed modification of a training plan or requires changes in a training plan or modification, the District Manager shall notify the operator and the miners' representative in writing of:

(1) The specific changes or items of deficiency.

(2) The action necessary to effect the changes or bring the disapproved training plan or modification into compliance.

(3) The deadline for completion of remedial action to effect compliance, which shall serve to suspend punitive action under the provisions of sections 104 and 110 of the Act and other related regulations until that established deadline date, except that no such suspension shall take place in imminent danger situations.

(n) The operator shall post on the mine bulletin board, and provide to the miners' representative, a copy of all MSHA revisions and decisions which concern the training plan at the mine and which are issued by the District Manager.

(o) Each operator engaged in shaft or slope construction shall have an MSHA-approved training plan, as outlined in this section, containing programs for training new miners, training experienced miners, training miners for new tasks, annual refresher training, and hazard training for miners as follows:

(1) In the case of an operator engaged in shaft or slope construction on December 30, 2005, the operator shall submit a plan for approval by May 1, 2006, unless extended by MSHA.

(2) In the case of a new shaft or slope construction operator after June 28, 2006, the operator shall have an approved plan prior to commencing shaft or slope construction.

(p) Each underground coal operator, who is required to submit a revised program of instruction for 30 CFR 75.1502, shall also submit a revised training plan under this part 48.

(Pub. L. No. 96-511, 94 Stat. 2812 (44 U.S.C. 3501 *et seq.*))

[43 FR 47459, Oct. 13, 1978; 44 FR 1980, Jan. 9, 1979, as amended at 47 FR 14696, Apr. 6, 1982; 47 FR 23640, May 28, 1982; 47 FR 28095, June 29, 1982; 60 FR 33722, June 29, 1995; 63 FR 53759, Oct. 6, 1998; 67 FR 38384, June 4, 2002; 70 FR 77727, Dec. 30, 2005; 71 FR 12268, Mar. 9, 2006; 71 FR 71451, Dec. 8, 2006; 80 FR 52986, Sept. 2, 2015]

#### § 48.4 Cooperative training program.

(a) An operator of a mine may conduct his own training programs, or may participate in training programs conducted by MSHA, or may participate in MSHA approved training programs conducted by State or other Federal agencies, or associations of mine operators, miners' representatives, other mine operators, private associations, or educational institutions.

(b) Each program and course of instruction shall be given by instructors who have been approved by MSHA to instruct in the courses which are given, and such courses and the training programs shall be adapted to the mining operations and practices existing at the mine and shall be approved by the District Manager for the area in which the mine is located.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23640, May 28, 1982]

**§ 48.5 Training of new miners; minimum courses of instruction; hours of instruction.**

(a) Each new miner shall receive no less than 40 hours of training as prescribed in this section before such miner is assigned to work duties. Such training shall be conducted in conditions which as closely as practicable duplicate actual underground conditions, and approximately 8 hours of training shall be given at the minesite.

(b) The training program for new miners shall include the following courses:

(1) *Instruction in the statutory rights of miners and their representatives under the Act; authority and responsibility of supervisors.* The course shall include instruction in the statutory rights of miners and their representatives under the Act, including a discussion of section 2 of the Act; a review and description of the line of authority of supervisors and miners' representatives and the responsibilities of such supervisors and miners' representatives; and an introduction to the operator's rules and the procedures for reporting hazards.

(2) *Self-rescue and respiratory devices.* The course shall be given before a new miner goes underground and shall include—

(i) Instruction and demonstration in the use, care, and maintenance of self-rescue and respiratory devices used at the mine;

(ii) Hands-on training in the complete donning of all types of self-contained self-rescue devices used at the mine, which includes assuming a donning position, opening the device, activating the device, inserting the mouthpiece, and putting on the nose clip; and

(iii) Hands-on training in transferring between all applicable self-rescue devices.

(3) *Entering and leaving the mine; transportation; communications.* The course shall include instruction on the procedures in effect for entering and leaving the mine; the check-in and checkout system in effect at the mine; 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.

(4) *Introduction to the work environment.* The course shall include a visit and tour of the mine, or portions of the mine which are representative of the entire mine. A method of mining utilized at the mine shall be observed and explained.

(5) *Mine map; escapeways; emergency evacuation; barricading.* The program of instruction for mine emergency evacuation and firefighting approved by the District Manager under 30 CFR 75.1502 or the escape and evacuation plan under 30 CFR 57.11053, as applicable, shall be used for this course. The course shall include—

(i) A review of the mine map; the escapeway system; the escape, firefighting, and emergency evacuation plans in effect at the mine; and the location of abandoned areas; and

(ii) An introduction to the methods of barricading and the locations of the barricading materials, where applicable.

(6) *Roof or ground control and ventilation plans.* The course shall include an introduction to and instruction on the roof or ground control plan in effect at the mine and procedures for roof and rib or ground control; and an introduction to and instruction on the ventilation plan in effect at the mine and the procedures for maintaining and controlling ventilation.

(7) *Health.* The course shall include instruction on the purpose of taking dust, 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.

(8) *Cleanup; rock dusting.* The course shall include instruction on the purpose of rock dusting and the cleanup and rock dusting program in effect at the mine, where applicable.

(9) *Hazard recognition.* The course shall include the recognition and avoidance of hazards present in the mine, particularly any hazards related to explosives where explosives are used or stored at the mine.

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

(11) *First aid.* The course shall include instruction in first aid methods acceptable to MSHA.

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(12) *Mine gases.* The course shall include instruction in the detection and avoidance of hazards associated with mine gases.

(13) *Health and safety aspects of the tasks to which the new miner will be assigned.* The course shall include instruction in the health and safety aspects of the tasks to be assigned, including the safe work procedures of such tasks, the mandatory health and safety standards pertinent to 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.

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

(c) Methods, including oral, written, or practical demonstration, to determine successful completion of the training shall be included in the training plan. The methods for determining such completion shall be administered to the miner before he is assigned work duties.

(d) A newly employed miner who has less than 12 months of mining experience and has received the courses and hours of instruction in paragraphs (a) and (b) of this section, within 36 months preceding employment at a mine, does not have to repeat this training. Before the miner starts work, the operator must provide the miner with the experienced miner training in § 48.6(b) of this part and, if applicable, the new task training in § 48.7 of this part. The operator must also provide the miner with annual refresher training and additional new task training, as applicable.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23640, May 28, 1982; 53 FR 10335, Mar. 30, 1988; 63 FR 53760, Oct. 6, 1998; 67 FR 42388, June 21, 2002; 71 FR 12268, Mar. 9, 2006; 71 FR 71451, Dec. 8, 2006]

### § 48.6 Experienced miner training.

(a) Except as provided in paragraph (e), this section applies to experienced miners who are—

- (1) Newly employed by the operator;
- (2) Transferred to the mine;

(3) Experienced underground miners transferred from surface to underground; or

(4) Returning to the mine after an absence of more than 12 months.

(b) Experienced miners must complete the training prescribed in this section before beginning work duties. Each experienced miner returning to mining following an absence of 5 years or more, must receive at least 8 hours of training. The training must include the following instruction:

(1) *Introduction to work environment.* The course shall include a visit and tour of the mine. The methods of mining utilized at the mine shall be observed and explained.

(2) *Mandatory health and safety standards.* The course shall include the mandatory health and safety standards pertinent to the tasks to be assigned.

(3) *Authority and responsibility of supervisors and miners' representatives.* The course shall include a review and description of the line of authority of supervisors and miners' representatives and the responsibilities of such supervisors and miners' representatives; and an introduction to the operator's rules and the procedures for reporting hazards.

(4) *Entering and leaving the mine; transportation; communications.* The course shall include instruction in the procedures in effect for entering and leaving the mine; the check-in and checkout system in effect at the mine; 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.

(5) *Mine map; escapeways; emergency evacuation; barricading.* The program of instruction for mine emergency evacuation and firefighting approved by the District Manager under 30 CFR 75.1502 or the escape and evacuation plan under 30 CFR 57.11053, as applicable, shall be used for this course. The course shall include—

(i) A review of the mine map; the escapeway system; the escape, firefighting, and emergency evacuation plans in effect at the mine; and the location of abandoned areas; and

(ii) Methods of barricading and the locations of barricading materials, where applicable.

(6) *Roof or ground control and ventilation plans.* The course shall include an introduction to and instruction on the roof or ground control plan in effect at the mine and procedures for roof and rib or ground control; and an introduction to and instruction on the ventilation plan in effect at the mine and the procedures for maintaining and controlling ventilation.

(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 § 48.7 do not need to take training under this paragraph.

(12) *Self-rescue and respiratory devices.* The course shall be given before the miner goes underground and shall include—

(i) Instruction and demonstration in the use, care, and maintenance of self-

rescue and respiratory devices used at the mine;

(ii) Hands-on training in the complete donning of all types of self-contained self-rescue devices used at the mine, which includes assuming a donning position, opening the device, activating the device, inserting the mouthpiece, and putting on the nose clip; and

(iii) Hands-on training in transferring between all applicable self-rescue devices.

(13) 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 on 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 also complete annual refresher training as required in § 48.8, if the miner missed taking that training during the absence.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23640, May 28, 1982; 53 FR 10335, Mar. 30, 1988; 53 FR 12415, Apr. 14, 1988; 63 FR 53760, Oct. 6, 1998; 67 FR 42388, June 21, 2002; 71 FR 12268, Mar. 9, 2006; 71 FR 71451, Dec. 8, 2006]

**§ 48.7 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, roof and 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 the safe operating procedures related to the assigned tasks, 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. 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; on

(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 pro-

cedures 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) Any person who controls or directs haulage operations at a mine shall receive and complete training courses in safe haulage procedures related to the haulage system, ventilation system, firefighting procedures, and emergency evacuation procedures in effect at the mine before assignment to such duties.

(e) 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 44 FR 1980, Jan. 9, 1979; 47 FR 23640, May 28, 1982; 67 FR 42388, June 21, 2002]

**§ 48.8 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) *Barricading.* The course shall include a review of the methods of barricading and locations of barricading materials, where applicable.

(4) *Roof or ground control, ventilation, emergency evacuation and firefighting plans.* The course shall include a review of roof or ground control plans in effect at the mine and the procedures for maintaining and controlling ventilation. In addition, for underground coal mines, except for miners who receive this training under 30 CFR 75.1504, the course shall include a review of the emergency evacuation and firefighting program of instruction in effect at the mine.

(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) *Self-rescue and respiratory devices.* The course shall include instruction and demonstration in the use, care, and maintenance of self-rescue and respiratory devices used at the mine. In addition, except for miners who receive this training under 30 CFR 75.1504, the training for self-contained self-rescue (SCSR) devices shall include:

(i) Hands-on training in the complete donning of all types of self-contained self-rescue devices used at the mine, which includes assuming a donning position, opening the device, activating the device, inserting the mouthpiece, and putting on the nose clip; and

(ii) Hands-on training in transferring between all applicable self-rescue devices.

(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.

(10) *Mine gases.* The course shall include instruction in the detection and avoidance of hazards associated with mine gases.

(11) *Health.* The course shall include instruction on the purpose of taking

dust, 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.

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

(c) Refresher training may include other health and safety subjects that are relevant to mining operations at the mine. Recommended subjects include, but are not limited to, 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.

(d) All persons employed as shaft or slope construction workers on June 28, 2006 must receive annual refresher training within 12 months of June 2006.

(e) Where annual refresher training is conducted periodically, such sessions shall not be less than 30 minutes of actual instruction time and the miners shall be notified that the session is part of annual refresher training.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23640, May 28, 1982; 53 FR 10336, Mar. 30, 1988; 63 FR 53760, Oct. 6, 1998; 67 FR 42389, June 21, 2002; 67 FR 76665, Dec. 12, 2002; 68 FR 53049, Sept. 9, 2003; 71 FR 12269, Mar. 9, 2006; 70 FR 77727, Dec. 30, 2005; 71 FR 71451, Dec. 8, 2006]

#### § 48.9 Records of training.

(a) Upon a miner's completion of each MSHA approved training program, the operator shall record and certify on MSHA form 5000-23 that the miner has received the specified training. A copy of the training certificate shall be given to the miner at the completion of the training. The training certificates for each miner shall be available at the minesite for inspection by MSHA and for examination by the miners, the miner's representative, and State inspection agencies. When a miner leaves the operator's employ, the miner shall be entitled to a copy of his training certificates.

(b) False certification that training was given shall be punishable under section 110 (a) and (f) of the Act.

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(c) Copies of training certificates for currently employed miners shall be kept at the minesite for 2 years, or for 60 days after termination of employment.

(Pub. L. No. 96-511, 94 Stat. 2812 (44 U.S.C. 3501 *et seq.*))

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 14706, Apr. 6, 1982; 60 FR 33722, June 29, 1995]

### § 48.10 Compensation for training.

(a) Training shall be conducted during normal working hours; miners attending such training shall receive the rate of pay as provided in § 48.2(d) (Definition of normal working hours) of this subpart A.

(b) If such training shall be given at a location other than the normal place of work, miners shall be compensated for the additional cost, such as mileage, meals, and lodging, they may incur in attending such training sessions.

### § 48.11 Hazard training.

(a) Operators shall provide to those miners, as defined in § 48.2(a)(2) (Definition of miner) of this subpart A, a training program before such miners commence their work duties. This training program shall include the following instruction, which is applicable to the duties of such miners:

- (1) Hazard recognition and avoidance;
- (2) Emergency and evacuation procedures;
- (3) Health and safety standards, safety rules, and safe working procedures;
- (4) Use of self-rescue and respiratory devices, including:
  - (i) Hands-on training in the complete donning of all types of self-contained self-rescue devices used at the mine, which includes assuming a donning position, opening the device, activating the device, inserting the mouthpiece, and putting on the nose clip; and
  - (ii) Hands-on training in transferring between all applicable self-rescue devices; and
- (5) Such other instruction as may be required by the District Manager based on circumstances and conditions at the mine.

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(b) Miners shall receive the instruction required by this section at least once every 12 months.

(c) The training program required by this section shall be submitted with the training plan required by § 48.3(a) (Training plans: Submission and approval) of this subpart A and shall include a statement on the methods of instruction to be used.

(d) In accordance with § 48.9 (Records of training) of this subpart A, the operator shall maintain and make available for inspection certificates that miners have received the hazard training required by this section.

(e) Miners subject to hazard training shall be accompanied at all times while underground by an experienced miner, as defined in § 48.2(b) (Definition of miner) of this subpart A.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23640, May 25, 1982; 53 FR 10336, Mar. 30, 1988; 71 FR 12269, Mar. 9, 2006; 71 FR 71452, Dec. 8, 2006]

### § 48.12 Appeals procedures.

The operator, miner, and miners' representative shall have the right of appeal from a decision of the District Manager.

(a) In the event an operator, miner, or miners' representative decides to appeal a decision by a District Manager, such an appeal shall be submitted, in writing, to the Administrator for Coal Mine Safety and Health or the Administrator for Metal and Nonmetal Mine Safety and Health, as appropriate, MSHA, 201 12th Street South, Arlington, VA 22202-5452, within 30 days of notification of the District Manager's decision.

(b) The Administrator may require additional information from the operator, the miners, or their representatives, and the District Manager, if the Administrator determines such information is necessary.

(c) The Administrator shall render a decision on the appeal within 30 days after receipt of the appeal.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23640, May 28, 1982; 71 FR 16666, Apr. 3, 2006; 80 FR 52986, Sept. 2, 2015]

**Subpart B—Training and Retraining of Miners Working at Surface Mines and Surface Areas of Underground Mines**

**§ 48.21 Scope.**

The provisions of this subpart B set forth the mandatory requirements for submitting and obtaining approval of programs for training and retraining miners working at surface mines and surface areas of underground mines. Requirements regarding compensation for training and retraining are also included. The requirements for training and retraining miners working in underground mines are set forth in subpart A of this part. This part does not apply to training and retraining of miners at shell dredging, sand, gravel, surface stone, surface clay, colloidal phosphate, and surface limestone mines, which are covered under 30 CFR Part 46.

[43 FR 47459, Oct. 13, 1978, as amended at 64 FR 53130, Sept. 30, 1999]

**§ 48.22 Definitions.**

For the purposes of this subpart B—

(a)(1) *Miner* means, for purposes of §§ 48.23 through 48.30 of this subpart B, any person working in a surface mine or surface areas of an underground mine and who is engaged in the extraction and production process, or engaged in shaft or slope construction, or who is regularly exposed to mine hazards, or who is a maintenance or service worker employed by the operator or a maintenance or service worker contracted by the operator to work at the mine for frequent or extended periods. This definition shall include the operator if the operator works at the mine on a continuing, even if irregular, basis. Short-term, specialized contract workers, such as drillers and blasters, who are engaged in the extraction and production process or engaged in shaft or slope construction and who have received training under § 48.26 (Experienced miner training) of this subpart B, may in lieu of subsequent training under that section for each new employment, receive training under § 48.31 (Hazard training) of this subpart B. This definition does not include:

(i) Construction workers under subpart C of this Part 48;

(ii) Any person covered under paragraph (a)(2) of this section.

(2) *Miner* means, for purposes of § 48.31 (Hazard training) of this subpart B, any person working in a surface mine, including any delivery, office, or scientific worker or occasional, short-term maintenance or service worker contracted by the operator, and any student engaged in academic projects involving his or her extended presence at the mine. This definition excludes persons covered under paragraph (a)(1) of this section and subpart C of this part.

(b) *Experienced miner* means:

(1) A miner who has completed MSHA-approved new miner training for surface miners or training acceptable to MSHA from a State agency and who has had at least 12 months of surface mining experience; or

(2) A supervisor who is certified under an MSHA-approved State certification program and who is employed as a surface supervisor on October 6, 1998; or

(3) An experienced surface miner on February 3, 1999.

(4)(i) A person employed as a surface shaft or slope construction worker on the June 28, 2006; or,

(ii) A person who has six months of surface shaft or slope experience within 24 months before June 28, 2006.

(c) *New miner* means a miner who is not an experienced miner.

(d) *Normal working hours* means a period of time during which a miner is otherwise scheduled to work. This definition does not preclude scheduling training classes on the sixth or seventh working day if such a work schedule has been established for a sufficient period of time to be accepted as the operator's common practice. Miners shall be paid at a rate of pay which shall correspond to the rate of pay they would have received had they been performing their normal work tasks.

(e) *Operator* means any owner, lessee, or other person who operates, controls, or supervises a surface mine or surface area of an underground mine; or any independent contractor identified as an operator performing services or construction at such time.

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(f) *Task* means a work assignment that includes duties of a job that occur on a regular basis and which requires physical abilities and job knowledge.

(g) *Act* means the Federal Mine Safety and Health Act of 1977.

[43 FR 47459, Oct. 13, 1978; 44 FR 1980, Jan. 9, 1979, as amended at 63 FR 53759, 53760, Oct. 6, 1998; 70 FR 77727, Dec. 30, 2005]

### **§ 48.23 Training plans; time of submission; where filed; information required; time for approval; method for disapproval; commencement of training; approval of instructors.**

(a) Except as provided in paragraph (c) of this section, each operator of a surface mine shall have an MSHA-approved plan containing programs for training new miners, training experienced miners, training miners for new tasks, annual refresher training, and hazard training for miners as follows:

(1) In the case of a mine which is operating on the effective date of this subpart B, the operator of the mine shall submit such plan for approval within 150 days after the effective date of this subpart B.

(2) Within 60 days after the operator submits the plan for approval, unless extended by MSHA, the operator shall have an approved plan for the mine.

(3) In the case of a new mine which is to be opened or a mine which is to be reopened or reactivated after the effective date of this subpart B, the operator shall have an approved plan prior to opening the new mine, or reopening or reactivating the mine unless the mine is reopened or reactivated periodically using portable equipment and mobile teams of miners as a normal method of operation by the operator. The operator to be so excepted shall maintain an approved plan for training covering all mine locations which are operated with portable equipment and mobile teams of miners.

(b) The training plan shall be filed with the District Manager for the area in which the mine is located.

(c) Each operator shall submit to the District Manager the following information:

(1) The company name, mine name, and MSHA identification number of the mine.

(2) The name and position of the person designated by the operator who is responsible for health and safety training at the mine. This person may be the operator.

(3) A list of MSHA approved instructors with whom the operator proposes to make arrangements to teach the courses, and the courses each instructor is qualified to teach.

(4) The location where training will be given for each course.

(5) A description of the teaching methods and the course materials which are to be used in training.

(6) The approximate number of miners employed at the mine and the maximum number who will attend each session of training.

(7) The predicted time or periods of time when regularly scheduled refresher training will be given. This schedule shall include the titles of courses to be taught, the total number of instruction hours for each course, and the predicted time and length of each session of training.

(8) For the purposes of § 48.27 (New task training of miners) of this subpart B, the operator shall submit:

(i) A complete list of task assignments to correspond with the definition of “task” in § 48.22(f) of this subpart B.

(ii) The titles of personnel conducting the training for this section.

(iii) The outline of training procedures used in training miners in those work assignments listed according to paragraph (c)(8)(i) of this section.

(iv) The evaluation procedures used to determine the effectiveness of training under § 48.27 of this subpart B.

(d) The operator shall furnish to the representative of the miners a copy of the training plan 2 weeks prior to its submission to the District Manager. Where a miners’ representative is not designated, a copy of the plan shall be posted on the mine bulletin board 2 weeks prior to its submission to the District Manager. Written comments received by the operator from miners or their representatives shall be submitted to the District Manager. Miners or their representatives may submit written comments directly to the District Manager.

(e) All training required by the training plan submitted to and approved by the District Manager as required by this subpart B shall be subject to evaluation by the District Manager to determine the effectiveness of the training programs. If it is deemed necessary, the District Manager may require changes in, or additions to, programs. Upon request from the District Manager the operator shall make available for evaluation the instructional materials, handouts, visual aids, and other teaching accessories used or to be used in the training programs. Upon request from the District Manager the operator shall provide information concerning schedules of upcoming training.

(f) The operator shall make a copy of the MSHA approved training plan available at the mine site for MSHA inspection and examination by the miners and their representatives.

(g) Except as provided in § 48.27 (New task training of miners) and § 48.31 (Hazard training) of this subpart B, all courses shall be conducted by MSHA approved instructors.

(h) Instructors shall be approved by the District Manager in one or more of the following ways:

(1) Instructors shall take an instructor's training course conducted by the District Manager or given by persons designated by the District Manager to give such instruction; and instructors shall have satisfactorily completed a program of instruction approved by the Office of Educational Policy and Development, MSHA, in the subject matter to be taught.

(2) Instructors may be designated by MSHA as approved instructors to teach specific courses based on written evidence of the instructors' qualifications and teaching experience.

(3) At the discretion of the District Manager, instructors may be designated by MSHA as approved instructors to teach specific courses based on the performance of the instructors while teaching classes monitored by MSHA. Operators shall indicate in training plans submitted for approval whether they want to have instructors approved based on monitored performance. The District Manager shall consider such factors as the size of the mine, the number of employees, the

mine safety record and remoteness from a training facility when determining whether instructor approval based on monitored performance is appropriate.

(4) On the effective date of this subpart B, cooperative instructors who have been designated by MSHA to teach MSHA approved courses and who have taught such courses within 24 months prior to the effective date of this subpart shall be considered approved instructors for such courses.

(i) Instructors may have their approval revoked by MSHA for good cause which may include not teaching a course at least once every 24 months. Before any revocation is effective, the District Manager must send written reasons for revocation to the instructor and the instructor shall be given an opportunity to demonstrate or achieve compliance before the District Manager on the matter. A decision by the District Manager to revoke an instructor's approval may be appealed by the instructor to the Administrator for Coal Mine Safety and Health or the Administrator for Metal and Nonmetal Mine Safety and Health, as appropriate, MSHA, 201 12th Street South, Arlington, VA 22202-5452. Such an appeal shall be submitted to the Administrator within 5 days of notification of the District Manager's decision. Upon revocation of an instructor's approval, the District Manager shall immediately notify operators who use the instructor for training.

(j) The District Manager for the area in which the mine is located shall notify the operator and the miners' representative, in writing, within 60 days from the date on which the training plan is filed, of the approval or status of the approval of the training programs.

(1) If revisions are required for approval, or to retain approval thereafter, the revisions required shall be specified to the operator and the miners' representative and the operator and the miners' representative shall be afforded an opportunity to discuss the revisions with the District Manager, or propose alternate revisions or changes. The District Manager, in consultation with the operator and the representative of miners, shall fix a time within

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which the discussion will be held, or alternate revisions or changes submitted, before final approval is made.

(2) The District Manager may approve separate programs of the training plan and withhold approval of other programs, pending discussion of revisions or submission of alternate revisions or changes.

(k) Except as provided under § 48.28(c) (Annual refresher training of miners) of this subpart B, the operator shall commence training of miners within 60 days after approval of the training plan, or approved programs of the training plan.

(1) The operator shall notify the District Manager of the area in which the mine is located and the miners' representative of any changes of modifications which the operator proposes to make in the approval training plan. The operator shall obtain the approval of the District Manager for such changes or modifications.

(m) In the event the District Manager disapproves a training plan or a proposed modification of a training plan or requires changes in a training plan or modification, the District Manager shall notify the operator and the miners' representative in writing of:

(1) The specific changes or items of deficiency.

(2) The action necessary to effect the changes or bring the disapproved training plan or modification into compliance.

(3) The deadline for completion of remedial action to effect compliance, which shall serve to suspend punitive action under the provisions of sections 104 and 110 of the Act and other related regulations until that established deadline date, except that no such suspension shall take place in imminent danger situations.

(n) The operator shall post on the mine bulletin board, and provide to the miners' representative, a copy of all MSHA revisions and decisions which concern the training plan at the mine and which are issued by the District Manager.

(o) Each operator engaged in shaft or slope construction shall have an MSHA-approved training plan, as outlined in this section, containing programs for training new miners, train-

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ing experienced miners, training miners for new tasks, annual refresher training, and hazard training for miners as follows:

(1) In the case of an operator engaged in shaft or slope construction on December 30, 2005, the operator shall submit a plan for approval by May 1, 2006, unless extended by MSHA.

(2) In the case of a new shaft or slope construction operator after June 28, 2006, the operator shall have an approved plan prior to commencing shaft or slope construction.

(Pub. L. No. 96-511, 94 Stat. 2812 (44 U.S.C. 3501 *et seq.*))

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 14696, Apr. 6, 1982; 47 FR 23640, May 28, 1982; 47 FR 28095, June 29, 1982; 60 FR 33723, June 29, 1995; 63 FR 52759, Oct. 6, 1998; 67 FR 38384, June 4, 2002; 70 FR 77727, Dec. 30, 2005; 80 FR 52986, Sept. 2, 2015]

#### § 48.24 Cooperative training program.

(a) An operator of a mine may conduct his own training programs, or may participate in training programs conducted by MSHA, or may participate in MSHA approved training programs conducted by State or other Federal agencies, or associations of mine operators, miners' representatives, other mine operators, private associations, or educational institutions.

(b) Each program and course of instruction shall be given by instructors who have been approved by MSHA to instruct in the courses which are given, and such courses and the training programs shall be adapted to the mining operations and practices existing at the mine and shall be approved by the District Manager for the area in which the mine is located.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23641, May 28, 1982]

#### § 48.25 Training of new miners; minimum courses of instruction; hours of instruction.

(a) Each new miner shall receive no less than 24 hours of training as prescribed in this section. Except as otherwise provided in this paragraph, new miners shall receive this training before they are assigned to work duties. At the discretion of the District Manager, new miners may receive a portion of this training after assignment to

work duties: *Provided*, That no less than 8 hours of training shall in all cases be given to new miners before they are assigned to work duties. The following courses shall be included in the 8 hours of training: Introduction to work environment, hazard recognition, and health and safety aspects of the tasks to which the new miners will be assigned. Following the completion of this preassignment training, new miners shall then receive the remainder of the required 24 hours of training, or up to 16 hours, within 60 days. Operators shall indicate in the training plans submitted for approval whether they want to train new miners after assignment to duties and for how many hours. In determining whether new miners may be given this training after they are assigned duties, the District Manager shall consider such factors as the mine safety record, rate of employee turnover and mine size. Miners who have not received the full 24 hours of new miner training shall be required to work under the close supervision of an experienced miner.

(b) The training program for new miners shall include the following courses:

(1) *Instruction in the statutory rights of miners and their representatives under the Act; authority and responsibility of supervisors.* The course shall include instruction in the statutory rights of miners and their representatives under the Act, including a discussion of section 2 of the Act; a review and description of the line of authority of supervisors and miners' representatives and the responsibilities of such supervisors and miners' representatives; and an introduction to the operator's rules and the procedures for reporting hazards.

(2) *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.

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

(4) *Introduction to work environment.* The course shall include a visit and tour of the mine, or portions of the mine which are representative of the entire mine. The method of mining or operation utilized shall be observed and explained.

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

(6) *Ground control; working in areas of highwalls, water hazards, pits and spoil banks; illumination and night work.* The course shall include, where applicable, and introduction to 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 the hours of darkness.

(7) *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.

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

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

(10) *First aid.* The course shall include instruction in first aid methods acceptable to MSHA.

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

(12) *Health and safety aspects of the tasks to which the new miner will be assigned.* The course shall include instructions in the health and safety aspects of the tasks to be assigned, including the safe work procedures of such tasks, the mandatory health and safety standards pertinent to such



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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.

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

(c) Methods, including oral, written or practical demonstration, to determine successful completion of the training shall be included in the training plan. Upon completion of training, the methods for determining successful completion shall be administered to the miner. The method for determining successful completion of pre-assignment training under paragraph (a) of this section shall be administered to the miner before he is assigned to work duties.

(d) A newly employed miner who has less than 12 months of mining experience and has received the courses and hours of instruction in paragraphs (a) and (b) of this section, within 36 months preceding employment at a mine, does not have to repeat this training. Before the miner starts work, the operator must provide the miner with the experienced miner training in § 48.26(b) of this part and, if applicable, the new task training in § 48.27 of this part. The operator must also provide the miner with annual refresher training and additional new task training, as applicable.

[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]

### § 48.26 Experienced miner training.

(a) Except as provided in paragraph (e), this section applies to experienced miners who are—

- (1) Newly employed by the operator;
- (2) Transferred to the mine;
- (3) Experienced surface miners transferred from underground to surface; or
- (4) Returning to the mine after an absence of more than 12 months.

(b) Experienced miners must complete the training prescribed in this section before beginning work duties. Each experienced miner returning to mining following an absence of 5 years or more, must receive at least 8 hours

of training. The training must include the following instruction:

(1) *Introduction to work environment.* The course shall include a visit and tour of the mine. The methods of mining or operations utilized at the mine shall be observed and explained.

(2) *Mandatory health and safety standards.* The course shall include the mandatory health and safety standards pertinent to the tasks to be assigned.

(3) *Authority and responsibility of supervisors and miners' representatives.* The course shall include a review and description of the line of authority of supervisors and miners' representatives and the responsibilities of such supervisors and miners' representatives; and an introduction to the operator's rules and the procedures for reporting hazards.

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

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

(6) *Ground controls; working in areas of highwalls, water hazards, pits, and spoil banks; illumination and night work.* The course shall include, where applicable, an introduction to 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 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, AMS 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 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; 73 FR 80612, Dec. 31, 2008]

**§ 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, 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.

(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.

(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.

(11) Such other courses as may be required by the District Manager based

on circumstances and conditions at the mine.

(c) Refresher training may include other health and safety subjects that are relevant to mining operations at the mine. Recommended subjects include, but are not limited to, 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.

(d) All persons employed as shaft or slope construction workers on June 28, 2006 must receive annual refresher training within 12 months of June 2006.

(e) Where annual refresher training is conducted periodically, such sessions shall not be less than 30 minutes of actual instruction time and the miners shall be notified that the session is part of annual refresher training.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23641, May 28, 1982; 63 FR 53761, Oct. 6, 1998; 70 FR 77728, Dec. 30, 2005]

#### § 48.29 Records of training.

(a) Upon a miner's completion of each MSHA approved training program, the operator shall record and certify on MSHA form 5000-23 that the miner has received the specified training. A copy of the training certificate shall be given to the miner at the completion of the training. The training certificates for each miner shall be available at the mine site for inspection by MSHA and for examination by the miners, the miners' representative and State inspection agencies. When a miner leaves the operator's employ, the miner shall be entitled to a copy of his training certificates.

(b) False certification that training was given shall be punishable under section 110 (a) and (f) of the Act.

(c) Copies of training certificates for currently employed miners shall be kept at the mine site for 2 years, or for 60 days after termination of employment.

(Pub. L. No. 96-511, 94 Stat. 2812 (44 U.S.C. 3501 *et seq.*))

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 14706, Apr. 6, 1982; 60 FR 33723, June 29, 1995]

#### § 48.30 Compensation for training.

(a) Training shall be conducted during normal working hours; miners attending such training shall receive the rate of pay as provided in § 48.22(d) (Definition of normal working hours) of this subpart B.

(b) If such training shall be given at a location other than the normal place of work, miners shall be compensated for the additional costs, such a mileage, meals, and lodging, they may incur in attending such training sessions.

#### § 48.31 Hazard training.

(a) Operators shall provide to those miners, as defined in § 48.22(a) (2) (Definition of miner) of this subpart B, a training program before such miners commence their work duties. This training program shall include the following instruction, which is applicable to the duties of such miners:

- (1) Hazard recognition and avoidance;
- (2) Emergency and evacuation procedures;
- (3) Health and safety standards, safety rules and safe working procedures;
- (4) Self-rescue and respiratory devices; and,
- (5) Such other instruction as may be required by the District Manager based on circumstances and conditions at the mine.

(b) Miners shall receive the instruction required by this section at least once every 12 months.

(c) The training program required by this section shall be submitted with the training plan required by § 48.23(a) (Training plans: Submission and approval) of this subpart B and shall include a statement on the methods of instruction to be used.

(d) In accordance with § 48.29 (Records of training) of this subpart B, the operator shall maintain and make available for inspection, certificates that miners have received the instruction required by this section.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23641, May 28, 1982]

## § 48.32

### § 48.32 Appeals procedures.

The operator, miner, and miners' representative shall have the right of appeal from a decision of the District Manager.

(a) In the event an operator, miner, or miners' representative decides to appeal a decision by the District Manager, such an appeal shall be submitted, in writing, to the Administrator for Coal Mine Safety and Health or the Administrator for Metal and Nonmetal Mine Safety and Health, as appropriate, MSHA, 201 12th Street South, Arlington, VA 22202-5452, within 30 days of notification of the District Manager's decision.

(b) The Administrator may require additional information from the operator, the miners or their representatives, and the District Manager, if the Administrator determines such information is necessary.

(c) The Administrator shall render a decision on the appeal within 30 days after receipt of the appeal.

[43 FR 47459, Oct. 13, 1978, as amended at 47 FR 23641, May 28, 1982; 67 FR 38384, June 4, 2002; 80 FR 52986, Sept. 2, 2015]

## PART 49—MINE RESCUE TEAMS

### Subpart A—Mine Rescue Teams for Underground Metal and Nonmetal Mines

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- 49.17 Physical requirements for mine rescue team.
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### APPENDIX TO SUBPART B OF PART 49—OPTIONAL FORM FOR CERTIFYING MINE RESCUE TEAMS

AUTHORITY: 30 U.S.C. 811, 825(e).

SOURCE: 45 FR 47002, July 11, 1980, unless otherwise noted.

## Subpart A—Mine Rescue Teams for Underground Metal and Nonmetal Mines

### § 49.1 Purpose and scope.

This part implements the provisions of Section 115(e) of the Federal Mine Safety and Health Act of 1977. Every operator of an underground mine shall assure the availability of mine rescue capability for purposes of emergency rescue and recovery.

### § 49.2 Availability of mine rescue teams.

(a) Except where alternative compliance is permitted for small and remote mines (§ 49.3) or those mines operating under special mining conditions (§ 49.4), every operator of an underground mine shall:

(1) Establish at least two mine rescue teams which are available at all times when miners are underground; or

(2) Enter into an arrangement for mine rescue services which assures that at least two mine rescue teams are available at all times when miners are underground.

(b) Each mine rescue team shall consist of five members and one alternate, who are fully qualified, trained, and equipped for providing emergency mine rescue service.

(c) To be considered for membership on a mine rescue team, each person must have been employed in an underground mine for a minimum of one year within the past five years. For the purpose of mine rescue work only, miners who are employed on the surface but work regularly underground shall