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TRAINING PLAN FOR SURFACE MINERS
PART 48, SUBPART B

COMPANY NAME _____
(Section 48.23 (c)(1))
ADDRESS _____

MINE NAME _____
MINE NAME _____
MINE NAME _____
MINE NAME _____

ID# _____
ID# _____
ID# _____
ID# _____

Person responsible for health and safety training at the mine. (SEC. 48.23 (c)(2))

Name

Position

Telephone Number

MSHA APPROVED INSTRUCTORS

Arizona State Mine Inspector _____

COURSE(S) QUALIFIED
TO TEACH. (SEC. 48.22 (c)(3))

AR, NEW MINER, FA CPR

LOCATION (S) WHERE TRAINING WILL BE GIVEN: (SEC.48.23 (c) (4))

NEW MINERS _____

NEWLY HIRED EXPERIENCED MINERS _____

TASK TRAINING _____

ANNUAL REFRESHER TRAINING _____

HAZARD TRAINING _____

MAXIMUM NUMBER OF TRAINEES PER TRAINING SESSION: (SEC.48.23 (c) (6)) _____

SURFACE

NEWLY EMPLOYED INEXPERIENCED MINERS (24 HOURS TOTAL)

48.25

SUBJECT AND HOURS	OBJECTIVES	TEACHING METHODS	COURSE MATERIAL	EVALUATION METHODS
Statutory Rights of Miners Sec. 48.25 (b) (1) Hours: As Required	*Able to list all major miner rights and those of representative of miners. *Able to name persons in charge of mine and the responsibility of their agents. *Able to relate the principal features of the safety program and know where to find the particulars.	Lecture, discussion with pass-outs.	MSHA Act, of 1977/ CFR 30 & Audio/Visual	Oral response, Discussion, Questions & Answers, Written tests in all areas, as appropriate
Respiratory Protection Sec. 48.25 (b) (2) Hours: As Required	*Demonstrate proper use of respirator. *Tell when to use dust respirator. *Show how to clean and maintain.	Lecture and hands-on with respirator.	Respirator & audio/visual.	Demonstrate and oral questions, discussion.
Transportation Controls and Communication Systems Sec. 48.25 (b) (3) Hours: As Required	*Able to explain the restrictions of riding mine vehicles. *Able to explain the traffic controls. *State location of emergency phones and numbers.	Lecture Discussion	Company safety rules and mine communication equipment. Audio visual when appropriate	Oral response and performance.
Introduction to Work Environment Sec. 48.25 (b) (4) Hours: As Required	*Able to explain the mining methods used. *Observe mining in progress. *Tour the entire mine at which they will work.	Discussion Demonstration Tour of Mine	Mine and Mining Equipment	Oral Response & Observation
Escape & Emergency Evacuation Plans Fire Warning & Fire Fighting Sec. 48.25 (b) (5) Hours: As Required	*Be able to explain the mine evacuation system. *Identify fire warning signals. *Name the locations and types of fire extinguishers.	Lecture and Demonstration	Company Policy Procedures Audio Visual	Oral Response & Performance

SURFACE**NEWLY EMPLOYED INEXPERIENCED MINERS****48.25**

SUBJECT AND HOURS	OBJECTIVES	TEACHING METHODS	COURSE MATERIAL	EVALUATION METHODS
Ground Control: Ventilation Plan Sec. 48.25 (b) (6) Hours: As Required	*Will explain company policy and procedures for inspecting and working high wall areas. *List associated hazards. *List all hazards connected with night work.	Lecture, Discussion.	Company Policy Audio-Visual	Oral Response and discussion.
Health Sec. 48.25 (b) (7) Hours: As required	*Will explain noise and dust control plans in effect. *Explain protective measures required. *Explain why silica dust is especially hazardous.	Lecture Discussion Demonstration	MSHA Act of 1977 Applicable Devices Audio-Visual	Oral Test, Discussion. Questions & Answers
Hazard Recognition Sec. 48.25 (b) (8) Hours: As Required	*Will list most common types of accidents and describe procedures for preventing them.	Lecture Discussion	Accident Reports Safety Manuals Audio-Visual	Oral response Written demonstration.
Electrical Hazards Sec. 48.25 (b) (9) Hours: As Required	*Will identify common electrical hazards. *Explain electrical lock out procedure.	Lecture Discussion Demonstration	Safety Manuals Audio-Visual	Oral Discussion, Questions & Answers
First Aid Sec. 48.25 (b) (10) More as Hours: 4; Required	*Will explain and demonstrate procedures to follow in event of injury. *Will demonstrate use of first aid materials. *Will know location of dispensary.	Lecture Hands-On	First Aid Equipment Audio-Visual	Oral Response, Discussion. Demonstration
Explosives Sec. 48.25 (b) (11) Hours: As Required	*Will know blasting procedures and signals. *State safety rules to follow when working near explosives. *Explain post blast procedures	Lecture Demonstration Discussion	Safety Procedures Dummy, Material; Audio-Visual	Oral Response Questions and Answers, Discussion

SURFACE

NEWLY EMPLOYED INEXPERIENCED MINERS

48.25

SUBJECT AND HOURS	OBJECTIVES	TEACHING METHODS	COURSE MATERIAL	EVALUATION METHODS
<p>Health & Safety Aspects of the tasks to which assigned. HazCom Sec. 48.25 (b) (12) Hours: As Required</p>	<p>*Explain any hazard especially pertaining to their work environment. *Describe safe work procedures. *Explain safety or health standards applicable to their job. Information about the physical and health hazards of chemicals in the miner's work area. Protective measures a miner can take against these hazards. Contents of the mine's HazCom program.</p>	<p>Lecture Discussion OJT</p>	<p>MSHA Act of 1977 Federal Standards Company policy Audio-Visual Protective equipment, copies of MSDSs used at the mine or other Company policy, information on where to find HazCom information</p>	<p>Oral Response and Performance</p>

SURFACE

NEWLY EMPLOYED EXPERIENCED MINERS -

48.26

SUBJECT AND HOURS		TEACHING METHODS	COURSE MATERIAL	EVALUATION METHODS
Introduction to the Work Environment Sec. 48.26 (b) (1) Hours: As Required	*Able to explain the mining methods used. *Observe mining in progress *Tour the entire mine at which they will work	Lecture/ Discussion Tour Area Audio-Visual	Maps Company Rule Book	Oral response to questions by instructor Written tests, as appropriate
Mandatory Health and Safety Standards Sec. 48.26 (b) (2) Hours: As Required	Will identify and explain mandatory materials pertinent to the tasks assigned.	Discussion Lecture	CFR Title 30	Oral Response Questions & Answers Discussion
Authority and Responsibility of Supervisors and Miners Representatives Sec. 48.26 (b) (3) Hours: As Required	*State the line of authority of supervisors and miners' representatives and indicate the responsibility of each. *Demonstrate knowledge of company rules and procedures. *Explain proper procedures for reporting hazards.	Lecture Discussion	MSHA Act of 1977 Audio-Visual	Oral Response Discussion with Questions & answers
Transportation Controls and Communication Systems Sec. 48.26 (b) (4) Hours: As Required	*Able to explain the restrictions of riding mine vehicles. *Able to explain the traffic controls. *State location of emergency phones and numbers.	Lecture/ Discussion	Company Policy Visual Aids	Oral Response to questions by instructor

SURFACE

NEWLY EMPLOYED EXPERIENCED MINERS -

48.26

SUBJECT & HOURS	OBJECTIVES	TEACHING METHODS	COURSE MATERIALS	EVALUATION METHODS
Escape and Emergency Evacuation Plans, fire fighting and fire warning. Sec. 48.26 (b) (5) Hours: As Required	*Be able to explain the mine evacuation system. *Identify fire warning signals. *Name the locations and types of fire extinguishers.	Lecture/ Discussion Tour Area	Maps Company Rule Book Visual Aids	Oral Response Discussion
Ground Controls, working in areas of high walls, pits and spoil banks. Sec. 48.26 (b) (6) Hours: As Required	*Identify company policy and procedures for inspecting and working high wall areas. *List associated hazards. *List all hazards connected with night work.	Lecture/ Discussion	Company Rule Book Audio-Visual	Oral response, Questions & Answers Discussion
Hazard Recognition Sec. 48.26 (b) (7) Hours: As Required	*Will list most common types of accidents and describe procedures for preventing them.	Lecture Discussion	Company Rule Book Audio-Visual	Oral Response to questions from instructor
HazCom Sec. 48.26(b)(11)	Information about the physical and health hazards of chemicals in the miner's work area. Protective measures a miner can take against these hazards. Contents of the mine's HazCom program	Lecture/ Discussion	Protective equipment, copies of MSDSs used at the mine Company policy, information on where to find HazCom information	Oral response, Questions & Answers Discussion

SURFACE

ANNUAL REFRESHER - (8 HOURS)

48.28

SUBJECT AND HOURS	OBJECTIVES	TEACHING METHODS	COURSE MATERIAL	EVALUATION METHODS
Mandatory Health and Safety Standards Sec. 48.28 (b) (1) Hours: As Required	Will discuss health and safety standards applicable to their own tasks.	Lecture & Discussion	CFR Title 30	Oral Response & Discussion Questions & Answers Written tests, as appropriate.
Transportation Controls and Communication Systems Sec. 48.28 (b) (2) Hours: As Required	*Able to explain the restrictions of riding mine vehicles. *Able to explain the traffic controls. *State location of emergency phones and numbers.	Lecture & Discussion	Company safety rules and mine communication equipment.	Oral test and performance.
Escape & Emergency Evacuation plans, Fire warning & fire fighting. Sec. 48.28 (b) (3) Hours: As Required	*Be able to explain the mine evacuation system. *Identify fire warning signals. *Name the locations and types of fire extinguishers.	Lecture & Discussion	Maps Company safety Procedures Audio, Visual Aides.	Oral test and performance.
Ground Control: working areas of high walls, water hazards, pits and spoil banks, illumination and night work. Sec. 48.28 (b) (4) Hours: As Required	*Will explain company policy and procedures for inspecting and working high wall areas. *List associated hazards. *List all hazards connected with night work.	Lecture & Discussion	Company safety procedures. Book Audio-Visual	Oral Response and discussion
First Aid Sec. 48.28 (b) (5) Hours: As Required	*Will explain and demonstrate procedures to follow in event of injury. *Will demonstrate use of first aid materials. *Will know location of dispensary.	Lecture & Discussion Demonstration	First Aid Equipment Audio-Visual Manual	Oral Response & Demonstration

SURFACE**ANNUAL REFRESHER - (8 hours)****48.28**

SUBJECT & HOURS	OBJECTIVES	TEACHING METHODS	COURSE MATERIAL	EVALUATION METHODS
Electrical Hazards Sec. 48.28 (b) (6) Hours: As Required	*Will identify common electrical hazards. *Explain electrical lock out procedure	Lecture & Discussion Demonstration	Safety procedures Audio, Visual	Oral Discussion, Questions & Answers
Prevention of Accidents Sec. 48.28 (b) (7) Hours: As Required	*Will review causes of accidents and identify means of preventing them	Lecture & Discussion	Company accident Reports, Relevant Periodicals	Oral Response Discussion Written tests, as appropriate
Health Sec. 48.28 (b) (8) Hours: As Required	*Will explain noise and dust control plans in effect. *Explain protective measures required. *Explain why silica dust is especially hazardous.	Lecture & Discussion Demonstration	MSHA Act of 1977 Applicable Devices, Audio Visual.	Oral Test Response Performance Discussion
Explosives Sec. 48.28 (b) (9) Hours: As Required	*Will know blasting procedures and signals. *State safety rules to follow when working near explosives. *Explain post blast procedures	Lecture & Discussion Demonstration	Safety Procedures Federal Standards Video, Audio.	Oral Response, Question & Answer Discussion.
Respiratory Devices Sec. 48.28 (b) (10) Hours: As Required	*Demonstrate proper use of respirator. *Tell when to use dust respirator. *Show how to clean and maintain.	Lecture & Discussion Hands on with respirator	Respirator & Audio/Visual.	Oral Response & Demonstration Discussion.

TASK TRAINING

I. PROCEDURES

All task training will be accompanied by a thorough review of the following procedures, as applicable.

Trainee will:

1. Know the function and working relationship of the new task to overall goals of the operation.
2. Be able to perform pre and post operation checks on any equipment necessary to the performance of the new tasks.
3. Demonstrate proper start-up and shut-down procedures on such equipment.
4. Describe and demonstrate safe operating procedures.
5. Be knowledgeable in any required maintenance and servicing requirements.
6. Know how to deal with or report any problems or malfunctions.
7. Demonstrate knowledge of company and federal health and safety procedures applicable to the new task.
8. Information about the physical and health hazards of chemicals in the miner's work area.
9. Protective measures a miner can take against these hazards.
10. Contents of the mine's HazCom program.

II. INSTRUCTOR:

Task training will be conducted by a qualified operator, lead person or experienced miner as required by the difficulty or specialization of the task.

III. The following methods will be used where applicable to the task:

1. Classroom
2. Question and Answer
3. Supervised student practice
4. Supervised OJT and feedback.

The period of supervised practice and OJT will be such duration to accomplish skills on a continuing basis.

IV. EVALUATION:

The primary methods of evaluation will be by oral question and answer and direct observation during observation during practice and OJT as to trainee's comprehension and performance of the new task.

V. MATERIAL UTILIZED:

1. Lesson plans.
2. Instructor knowledge
3. Operator Manual
4. Plant diagram
5. Company policies and procedures

TABULATION OF MINE OPERATION JOB TASKS/DUTIES

TASKS/DUTIES

JOBS

XXXXXXXXXXXX							

E

TABULATION OF MINE OPERATION JOB TASKS/DUTIES

X

A

TASKS/DUTIES

M

JOBS

XXXXXXXXXXXX	INSPECT BELTS	LOAD TRUCKS	EMERGENCY MAIN & REPAIR	TEST ELECTRICAL EQUIPMENT	PRE/POST OPERATIVE EQUIP CHECK	OPERATE DRILL EQUIP	INSTALL PARTS & EQUIPMENT
ELECTRICIAN				P	X		
MOBILE EQUIPMENT OPERATOR		X			X	X	
TRUCK DRIVER					L		X
PLANT OPERATOR	X		X			E	X
MECHANIC			X		X	X	X
LABORER			X				X
DRILL OPERATOR						X	X
LOADER OPERATOR							
UTILITY MINER							
UTILITY MINER'S HELPER							

HAZARD TRAINING
SECTION 48.31

Persons who are exposed to mine hazards and are not required to take new miner or experienced miner training will receive training will receive training according to the following outline prior to commencing work on mine property. The training will be given at least once every twelve months.

SUBJECT AND HOURS	OBJECTIVES	TEACHING METHODS	COURSE MATERIAL	EVALUATION METHODS
Hazard recognition and avoidance & Emergency procedures SEC. 48.31 (a) (1 & 2) Hours: as required	Trainee will be able to: *Recognize the hazard of moving machinery and mine-related operations. *Point out restricted areas. *Point out rail train crossing points (where applicable) *Describe general company safety rules. *Point out building, yard and mine exits. *Locate plant first-aid facilities.	Lecture & Discussion Management Letter	Hazard Checklist Plant Diagram Safety Rules	Oral Questions; observe that checklist and management letter is read.
Health & Safety aspects of the tasks to which the new miner will be assigned. SEC. 48.31 (a) (3) Hours:as required	Trainee will be able to: *Recognize hazards pertaining to his work assignments. *Demonstrate the safety work procedures of the task/tasks to which he is assigned. *Explain mandatory health and safety standards applicable to assigned work task/tasks.	On-the-job training	Work environment equipment Instructor's knowledge	Oral & Written Tests as necessary Trainee performance
Respiratory Devices SEC. 48.31 (a) (4) Hours: as required	Trainee will be able to: *Demonstrate proper use of respirator devices. *Tell when to use dust devices. *Show how to clean and maintain mask, if applicable. *Explain how new devices can be obtained.	Lecture Discussion Demonstration Audiovisual	Slides & Tapes Training respirator or dust device.	Oral Response Written Tests, as necessary Observed performance