

Safety Program for Surface Mobile Equipment
Prepared by the National Sand, Stone & Gravel Association

A. Purpose and scope

_____, MSHA ID _____ is committed to promoting and supporting a positive safety culture for all miners at and visitors to the facility. The purpose of this written safety program for surface mobile equipment (the Program) is to reduce the number and rates of accidents, injuries, and fatalities.

B. Responsible Person(s)

The following individual(s) is designated as the responsible person(s) with the authority and responsibility to evaluate and update the Program, beginning no later than July 17, 2024.

Responsible Person

Responsible Person

Title

Title

Responsible Person

Responsible Person

Title

Title

C. Applicability

The Program applies to all wheeled, track-mounted, skid-mounted, and rail-mounted equipment that is capable of moving or being moved, and any powered equipment that transports people, equipment, or materials.

D. Surface Mobile Equipment On-Site; Hazards, Risk Reduction Measures; Evaluation of Technologies; Training

The following equipment has been identified at this facility and actions to reduce accidents, injuries, and fatalities are outlined. SPECIAL NOTE: For all categories of equipment, non-routine repairs will be addressed by following manufacturer recommendations, applicable MSHA standards, and plant safety policies, rules, and procedures.

a. Rubber-tired heavy machinery

Haul trucks

Water Trucks

Other

End loaders

Vacuum Trucks

Forklifts

Safety Program for Surface Mobile Equipment

Basic safety key points include engaging parking brakes and using wheel chocks when parked, turning front wheels toward berm when parked on grade, conducting pre-operational examinations, wearing seat belts, maintaining good housekeeping (cleaning operator compartment), wearing appropriate PPE, providing fire protection, and maintaining 3-points of contact when mounting and dismounting as appropriate.

Primary hazards and risks	Risk reduction measures	Procedures and schedules for routine maintenance	Evaluation of feasible technologies	Training for miners and other persons
Visibility issues, vehicle size and weight, backup hazards, pedestrian and worker safety, terrain and environmental factors, maintenance and inspection risks, electrical and hydraulic hazards, weather conditions, operator training and competency	Mirrors and cameras (if feasible), spotters, backup alarms, establish designated walkways, using signage, site assessments and proper planning before work is done, train operators to adjust driving depending on weather conditions, task training, follow speed limit and other roadway signs.	Follow regular maintenance schedules, conduct inspections, and adhere to manufacturer guidelines. Adherence to manufacturer guidelines is critical.	Consult manufacturer guidelines and websites such as Construction Equipment Guide, Equipment World, Heavy Equipment Forum, Association of Equipment Manufacturers, and Forklift Action.	Miners and others at the mine necessary to perform work will be trained in compliance with the Part 46 Training Plan (the Plan). The Plan contains safety rules and procedures that miners, visitors, and others must follow to identify, and address hazards related to wheeled surface mobile equipment.

b. Small rubber-tired vehicles

Utility Trucks

4-Wheel All-Terrain Vehicles

Other

Pickup Trucks

Gators

Golf Carts

Basic safety key points include engaging parking brakes and using wheel chocks when parked, turning front wheels toward berm when parked on grade, conducting pre-operational examinations, wearing seat belts, maintaining good housekeeping (cleaning operator compartment), wearing appropriate PPE, and providing fire protection.

Safety Program for Surface Mobile Equipment

Primary hazards and risks	Risk reduction measures	Procedures and schedules for routine maintenance	Evaluation of feasible technologies	Training for miners and other persons
Vehicle collisions, pedestrian struck-by accidents, backing up hazards, visibility hazards, overloading and unsecured loads, uneven terrain, reckless driving, intersection risks, inadequate driver training, weather-related issues, mechanical failures, alcohol and substance abuse, and communication issues.	Proper traffic management that uses signage and communication protocols, establish designated walkways using barriers, use of backup alarms, mirrors, spotters and cameras if appropriate, observe vehicle load capacity restrictions and secure all loads, enforce strict rules and implement consequences for failure to follow traffic signs, incorporate right-of-way rules at intersections, conduct regular test for substance abuse, use 2-way communication where appropriate.	Follow regular maintenance schedules, conduct inspections, and adhere to manufacturer guidelines. Adherence to manufacturer guidelines is critical.	Consult manufacturer guidelines and consult websites such as National Highway Traffic Safety Administration-Pickup Truck Safety, Institute for Highway Safety-Trucks, ATV Safety Institute, Occupational Safety and Health Administration-Golf Cart Safety, Golf Cart Advisor-Safety.	Miners and others at the mine necessary to perform work will be trained in compliance with the Part 46 Training Plan (the Plan). The Plan contains safety rules and procedures that miners, visitors, and others must follow to identify hazards and risks associate with small personnel and material carrier vehicles.

c. Track-mounted equipment

Dozers

Other

Track-mounted Excavators

Basic safety key points include engaging parking brakes, conducting preoperational examinations, wearing seat belts and other appropriate PPE, fire protection, and maintaining 3-points of contact when mounting and dismounting.

Safety Program for Surface Mobile Equipment

Primary hazards and risks	Risk reduction measures	Procedures and schedules for routine maintenance	Evaluation of feasible technologies	Training for miners and other persons
Tip-over risk, engulfment, pinch and crush points, operator visibility, entanglement hazards, maintenance and repair risks, electrical hazards, fuel and fluid hazards, weather conditions, engulfment hazards, operator training and competency,	Caution on sloped and rough surfaces, awareness of potential voids on stockpiles in extreme cold, use of spotters if appropriate, no loose clothing around moving parts, lock/tag/try procedures before maintenance work, proper storage and handling management of hazardous substances, maintain safe clearance when operating on bench or under highwall.	Follow regular maintenance schedules, conduct inspections, and adhere to manufacturer guidelines. Adherence to manufacturer guidelines is critical.	Consult manufacturer guidelines and websites such as Construction Equipment Guide, Equipment World, Heavy Equipment Forum, Association of Equipment Manufacturers.	Miners and others at the mine necessary to perform work will be trained in compliance with the Part 46 Training Plan (the Plan). The Plan contains safety rules and procedures that miners, visitors, and others must follow to identify, and address hazards related to track-mounted surface mobile equipment.

d. Rail machinery and equipment

Locomotives

Railcars

Other

Track Mobiles

Basic safety key points include conducting pre-operational examinations, fire protection, and PPE.

Primary hazards and risks	Risk reduction measures	Procedures and schedules for routine maintenance	Evaluation of feasible technologies	Training for miners and other persons
Collision risks, derailment hazards, electrical hazards, crushing and pinch points, loading and unloading risks,	Use remotely operated equipment where appropriate, 2-way communication between machinery and ground operators, stop blocks	Follow regular maintenance schedules, conduct inspections, and adhere to manufacturer guidelines. Adherence	Consult manufacturer guidelines and websites such as Association of American Railroads, Federal Railroad Administration,	Miners and others at the mine necessary to perform work will be trained in compliance with the Part 46 Training Plan (the Plan). The

Safety Program for Surface Mobile Equipment

hazardous materials handling, visibility, weather conditions, inspection risks, operator training and competency, clearance and track conditions, speed limits, rail crossings and traffic signals.	at end of rail lines on mine property, regular track inspections to detect rail defects, high visibility caution tape for work zones, maintaining safe position away from pinch points when engaging and disengaging couplers, properly positioned mirrors and cameras on locomotives, maintaining safe track clearance when walking,	to manufacturer guidelines is critical.	Progressive Railroading and Railway Technology.	Plan contains safety rules and procedures that miners, visitors, and others must follow to identify, and address hazards related to mobile equipment operating on rail lines located on mine property.
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e. Lift machines

Aerial Lifts

Mobile Cranes

Other

Cherry Pickers

Scissor Lifts

Basic safety key points include engaging parking brakes and wheel chocks when parked, pre-operational examinations, wear seat belts, practice good housekeeping (clean operator compartment), appropriate PPE, and provide fire protection.

Primary hazards and risks	Risk reduction measures	Procedures and schedules for routine maintenance	Evaluation of feasible technologies	Training for miners and other persons
Fall from heights, tip-over hazards, entrapment and crush hazards, electrocution risks, overloading,	Wear fall protection at all times, secure guardrails on platforms, do not overload platform above the maximum	Follow regular maintenance schedules, conduct inspections, and adhere to manufacturer	Consult manufacturer guidelines and consult websites such as Crane Network, Occupational Safety and Health	Miners and others at the mine necessary to perform work will be trained in compliance with the Part 46 Training

Safety Program for Surface Mobile Equipment

mechanical failures, collisions and striking hazards, weather-related risks, inadequate training, communication issues, stability and ground control.	weight for equipment, stabilize wheels with chocks and engage parking brake, operate on even terrain if possible, look for overhead powerlines in vicinity of lift machine, 2-way communication and signals between machinery and ground operators, assess weather and cease operation if indicated, enforce the use of fall protection and implement consequences if indicated, use stabilizers and outriggers if necessary.	guidelines. Adherence to manufacturer guidelines is critical.	Administration-Cranes and Derricks, American National Standards Institute, Crane Institute of America, Occupational Safety and Health Administration-Aerial Lifts, International Powered Access Federation.	Plan (the Plan). The Plan contains safety rules and procedures that miners, visitors, and others must follow to identify hazards and risks associated with lift machines.
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E. The Program will be evaluated and updated at least annually, or as mining conditions or practices change that may adversely impact the health and safety of miners or other persons, as accidents or injuries occur, or as surface mobile equipment changes of modifications are made.

F. Input was solicited from the following miners and/or their representatives in developing and updating the Program.

- a. Miner or Miner's Representative
- b. Miner or Miner's Representative
- c. Miner or Miner's Representative
- d. Miner or Miner's Representative

Safety Program for Surface Mobile Equipment

- G. The Program is available for inspection by authorized representatives of the Secretary of Labor and miners and their representatives, who may receive a copy of the Program at no cost to them.

Responsible Person

Signature

Date of Program Update