Workplace Examination

MSHA 30 CFR 56.18002
Surface
Metal/Nonmetal
Workplace Examination

Why do we do perform them?

• Required by MSHA.
• It is my job to make sure my area is safe.
• To find hazards and correct them before we start the Plant.
• Imminent danger, pull employees out of area
A miner was seriously injured when the expanded metal walkway suddenly failed. The miner fell 10 feet directly to the ground below. The expanded metal walkway was covered with conveyor belt to aid in the shoveling spillage. The conveyor belt allowed corrosive material to accumulate and accelerated the deterioration of the expanded metal. Further, the application of the conveyor masked the signs of deterioration on the walkway, making a thorough workplace examination difficult.
Purpose:

• To clarify the examination of working places required under CFR 56.18002

• To identify hazardous conditions and eliminate, mitigate, or correct hazardous conditions in a timely manner
56/57.18002 - Examination of Working Places

1. A **competent** person designated by the operator shall examine each working place at least once each shift for conditions which may adversely affect safety or health. The operator shall promptly initiate appropriate action to correct such conditions.

2. A **record** that such examinations were conducted shall be kept by the operator for a period of one year and shall be made available for review by the Secretary or his authorized representative.

3. In addition, **conditions** that may present an imminent danger which are noted by the person conducting the examination shall be brought to the immediate attention of the operator who shall withdraw all persons from the area affected until the danger is abated.
Definitions

“Competent person”, is a “person having abilities and experience that fully qualify him to perform the duty to which he is assigned.”

“Working place”, is defined as : “any place in or about a mine where work is being performed.”

As used in the standard, the phrase applies to all locations at a mine site where miners work in the extraction or milling processes. This includes areas where work is performed on an infrequent basis, such as areas accessed primarily during periods of maintenance or clean-up. All such working places must be examined by a competent person at least once per shift.
Work Place Exam Expectation

- A **competent person** examines the working place **before** miners begin work in that location.
- Mine operators promptly notify miners of any conditions that may adversely affect their safety or health.
- A **competent person** signs and date the examination record before the end of shift. The examination record must include a description of locations examined, conditions found and corrective actions taken.
- **Records** must be available for inspection by MSHA and miner’s representatives, and operators must provide a copy of the records upon request.
56.2003 - Housekeeping

At all mining operations -

- (a) Workplaces, passageways, storerooms, and service rooms shall be kept clean and orderly.
- (b) The floor of every workplace shall be maintained in a clean and, so far as possible, dry condition. Where wet processes are used, drainage shall be maintained, and false floors, platforms, mats, or other dry standing places shall be provided where practicable; and
- (c) Every floor, working place, and passageway shall be kept free from protruding nails, splinters, holes, or loose boards, as practicable.
Housekeeping
56.14107 Moving Machine Parts

• (a) Moving machine parts shall be guarded to protect persons from *contacting gears, sprockets, chains, drive, head, tail and take-up pulleys, flywheels, couplings, shafts, fan blades* and similar moving parts that can cause injury.

• (b) Guards shall not be required where the exposed moving parts are at least seven feet away from walking or working surfaces.
Unguarded Machine Parts

MISSING GUARD

GUARD NEEDS REPLACEMENT PRIOR TO START UP
56.14112 Construction and Maintenance of Guards

(a) Guards shall be constructed and maintained to:

(1) **Withstand** the vibration, shock, and wear to which they will be subjected during normal operations.

(2) Not create a hazard by their use.
GUARDS NOT PROPERLY CONSTRUCTED OR MAINTAINED
56.3200 High Walls

- This standard prohibits work or travel, other than corrective work, in areas where hazardous ground conditions exist. Posting of a warning against entry is required until corrective work is completed if workers could enter the area inadvertently.
High Walls

Severely Undercut High Wall

Deteriorating conditions may not be visible from below
Power wires and cables shall be insulated adequately where they pass into or out of electrical compartments. Cables shall enter metal frames of motors, splice boxes, and electrical compartments through proper fittings. When insulated wires, other than cables pass through metal frames, holes shall be bushed with insulated bushings.
Inspection and cover plates on electrical equipment and junction boxes shall be kept in place at all times except during testing or repairs.
56.12004 Electrical Conductors

- Electrical conductors shall be of a sufficient size and current carrying capacity to ensure that a rise in temperature resulting from normal operations will not damage the insulating materials. Electrical conductors exposed to mechanical damage shall be protected.
• Continuity and resistance of grounding systems shall be tested immediately after installation, repair, and modification, annually thereafter. A record of the resistance measured during the most recent tests shall be made available on a request by the Secretary or his duly authorized representative.
56.12018 Identification of Power Switches

- Identification of principal Power Switches shall be labeled to show which units they control, unless identification can be made readily by location.
56.4201 (a)(2) Fire Extinguishers

• (a) Firefighting equipment shall be inspected according to the following schedules:

• (2) At least once every twelve months, maintenance (service) checks shall be made of mechanical parts, the amount and condition of extinguishing agent and expellant, and the condition of the hose, nozzle, and vessel to determine that the fire extinguishers will operate effectively.

• Monthly visual inspection to insure that extinguisher is mounted in proper place, clear of obstacles, inspected, and tagged. Fully charged with discharge pin in place and in working order.
56.4201 (a)(2) Fire Extinguishers

What is wrong?

What is wrong?
56.9300 Berms and Guardrails

• (a) Berms or guardrails shall be provided and maintained on ramps, banks or roadways where a drop-off exists of sufficient grade or depth to cause a vehicle to overturn or endanger persons in equipment.

• (b) Berms or guardrails shall be at least mid-axle height of the largest self-propelled mobile equipment which usually travels the roadway.
56.9300 Berms and Guardrails

RAMP WITHOUT PROPER BERMING MAINTAINED AT MID AXLE HEIGHT.

BERMS MUST BE CONSTRUCTED AND MAINTAINED TO CONTROL THE TYPE OF MOBILE EQUIPMENT USED ON THE MINE SITE.
56.9301 Dump Points

- Dumpsites shall be inspected prior to work and as ground conditions change. If there is any indication that the edge is unstable, loads should be dumped a safe distance away from the edge.

Dumpsites should be examined frequently as mining conditions change.
56.9301 Dump Points

- GOOD
- BETTER
- BAD

- GOOD
- BAD
- Soft Ground BAD
Other

Damaged Ladder Footing

Overused, damaged webbing, fall protection
Work Place Exam Abatement

Any deficiencies found must be abated and dated on the work place examination form in a timely manner.
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<th>HOUSEKEEPING</th>
<th>SUN</th>
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<tr>
<td>Walkways, steps &amp; decks clear of material build-up, oil, debris</td>
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<td>Elevated Walkways and Handrails, toe boards in good condition</td>
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<td>Floorboards, decking, cleats in good conditions</td>
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<td>Guards in place and in good condition</td>
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<td>Conveyor rollers properly guarded</td>
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<td>Hoses, shovels, etc. properly stored</td>
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<td>Flammable material storage</td>
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<td>Pull cords in place and Operational</td>
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<td>Electrical cover plates &amp; plugs in place</td>
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<td>Any exposed wiring?</td>
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<td>Lights working and guarded</td>
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<td>Circuit breakers &amp; boxes clearly labeled</td>
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<td>Electrical extension cords adequately, marked, &amp; currently tested</td>
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<td>Electrical installation &amp; LOCK OUT procedures</td>
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<td>Mounted in proper place, clear approach, properly inspected &amp; tagged</td>
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<td>Fully charged with discharge pin, ABC</td>
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<td>Berms</td>
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Ponds
Dump sites
Highwalls
Stockpiles
Clean-up

OTHERS

Personal Protective Equipment
Ladders in good condition
Pressure vessel(s) drained & safety valves easily accessible
Hazard warning, directional and informational signs & tags used where there are immediate dangers and/or potential hazards
All Emergency Eyewash & Shower stations in good working order
Fall protection
Welding cylinders secure with valve guards in place
Lifting devices, ie. Slings, chains, inspected for excessive wear, defect or expiration
Tunnel housekeeping, lighting, emergency stops & fire extinguishers
First Aid supplies
Communication, emergency numbers

NOTES: (Explain unsatisfactory items noted above)

I understand that it is my responsibility to examine the working place before others work in that area and I am to report any conditions which may adversely affect their safety or health. This form must be signed and dated before the end of assigned shift.

PRINT NAME: ________________________ SIGNATURE : ____________________________
Thank you!