



Company Name: \_\_\_\_\_ Job Site Location: \_\_\_\_\_

Date: \_\_\_\_\_ Start Time: \_\_\_\_\_ Finish Time: \_\_\_\_\_ Foreman/Supervisor: \_\_\_\_\_

## **Topic 658: Quarry Haul Roads (Part A)**

**Introduction:** Hazardous conditions on quarry roads include the width, slope, and ground. Following are safety guidelines for quarry haul roads:  
**Ground conditions:** Persons experienced in examining and testing for loose ground must be designated by the quarry operator.

- **Appropriate** supervisors or other designated persons are required to examine and, where applicable, test ground conditions in areas where work is to be performed prior to work commencing, after blasting, and as ground conditions warrant during the work shift.
- **Highwalls** and banks adjoining travelways must be examined weekly, or more often, when changing ground conditions warrant.
- **Personnel** must not work or travel, between machinery or equipment and the highwall or bank, where the machinery or equipment may hinder escape from falls or slides of the highwall or bank.
- **Mobile equipment** used for haulage of quarried material must be loaded to minimize spillage where a hazard could be created.

**Berms or guardrails:** Berms or guardrails are required to be provided and maintained on the banks of roadways where a drop-off exists of sufficient grade or depth to cause a vehicle to overturn or endanger workers using equipment.

- **Make sure** the berms or guardrails are at least mid-axle height of the largest mobile equipment which usually travels the roadway.
- **Remember**, berms may have openings to the extent necessary for roadway drainage.

**Where elevated roadways are infrequently traveled and used only by service or maintenance vehicles, berms or guardrails are not required when all of the following are met:**

- **Locked gates** are installed at the entrance points to the roadway.
- **Signs** are posted warning that the roadway is not bermed.
- **Delineators** are installed along the perimeter of the elevated roadway so that, for both directions of travel, the reflective surfaces of at least three delineators along each elevated shoulder are always visible to the driver and spaced at intervals sufficient to indicate the edges and attitude of the roadway.
- **A maximum speed limit** is posted and observed for the elevated unbermed portions of the roadway. Factors to consider when establishing the maximum speed limit must include the width, slope and alignment of the road, the type of equipment using the road, the road material, and any hazardous conditions which may exist.
- **Road surface traction** is not impaired by weather conditions, such as sleet and snow, unless corrective measures are taken to improve traction.

**Dump site restraints:** Berms, bumper blocks, safety hooks, or similar impeding devices are required to be provided at dumping locations where there is a hazard of overtravel or overturning.

**Road maintenance:** Water, debris, or spilled material, on roadways that creates hazards to the operation of mobile equipment, must be removed.

**Stockpile and muckpile faces:** Stockpile and muckpile faces are required to be trimmed to prevent hazards to workers.

**Dust control:** Dust is required to be controlled on haulage roads, at muck piles, material transfer points, and crushers where hazards to persons would be created as a result of impaired visibility. Water trucks must maintain a safe clearance from all other equipment.

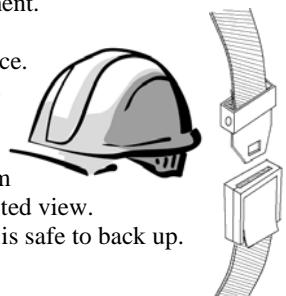
**Seat belts for haulage trucks:** Seat belts are required to be provided and worn in haulage trucks.

- **Seat belts** must be maintained in functional condition, and replaced when necessary to assure proper performance.

**Horns and backup alarms:** Manually-operated horns or other audible warning devices must be provided on mobile equipment as a safety feature and are required to be maintained in functional condition.

**When the operator has an obstructed view to the rear, mobile equipment is required to have:**

- An automatic reverse-activated signal alarm.
- A wheel-mounted bell alarm which sounds at least once for each three feet of reverse movement.
- **Make sure** all alarms are audible above the surrounding noise level.
- **An automatic reverse-activated strobe light** may be used at night in lieu of an audible reverse alarm.
- **A discriminating backup alarm** that covers the area of obstructed view.
- An observer to signal when it is safe to back up.



**Personal Protective Equipment:** All workers and personnel must wear suitable hard hats when in or around the quarry where falling objects may create a hazard. Wear safety glasses, goggles, or other suitable protective devices to protect the eyes. Wear proper protective footwear.

**Conclusion:** Remember, retrain all workers periodically. Utilize these safety guidelines when working and traveling on quarry haul roads.

### **Work Site Review**

Work-Site Hazards and Safety Suggestions: \_\_\_\_\_

Personnel Safety Violations: \_\_\_\_\_

**Employee Signatures:**

(My signature attests and verifies my understanding of and agreement to comply with, all company safety policies and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury or illness.)

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**Foreman/Supervisor's Signature:** \_\_\_\_\_

*These guidelines do not supersede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.*