

Job Name: _____ Job Site Location: _____

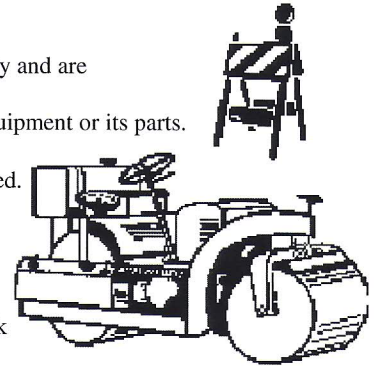
Date: _____ Start Time: _____ Finish Time: _____ Foreman/Supervisor: _____

Topic 347: Asphalt Rollers

Introduction: Asphalt rollers are used to compact and finish asphalt. Rollers vary in design from nine wheel pneumatics, to dual steel drums, to a combination of pneumatic tire and steel drum rollers. Rollers range in size and corresponding weight from two ton machines for smaller residential jobs, to twelve ton machines and higher for commercial and highway work. These machines appear deceptively slow, however they can move quickly and can easily cause injuries. The vibratory feature on these rollers increases the compaction force of the machine beyond its actual weight. There are few obstacles which can prevent the machine from doing its job - flattening anything in its path. Following are guidelines for the safe operation of asphalt rollers:

OSHA requirements which pertain to asphalt rollers:

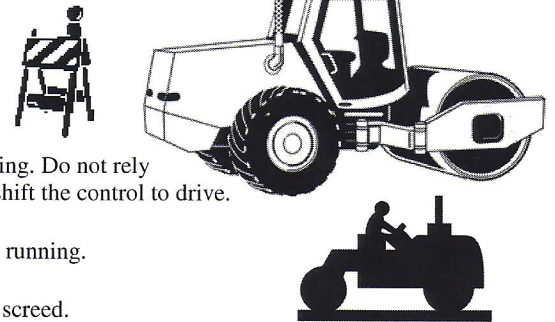
- **Employers must ensure** that personnel who operate rollers are properly trained to operate the machine safely and are knowledgeable in the hazards associated with asphalt paving operations.
- **General repairs** must not be made to powered equipment until workers are protected from movement of equipment or its parts.
- **Before repairs** are made, workers must comply with Lockout/Blockout-Tagout requirements.
- **Whenever equipment** operations encroach on a public thoroughfare, a system of traffic controls must be used.
- **Machines must** be equipped with operable service, emergency, and parking brakes.
- **Equipment and systems** must be checked for proper operation and condition at the start of each shift.
- **The machine must** be equipped with a manually operated warning device (horn).
- **Do not fuel** the roller while running or when the engine is hot.
- **Any pinch points** which pose a threat to the operator during normal operation must be guarded. Do not work or stand in the articulating area of a roller any time the machine is running.



Note: Because of the design and nature of asphalt rollers, roll-over protection is not required under normal operating conditions.

Safety guidelines specific to asphalt rollers: Modern asphalt rollers use hydraulics to drive the wheels or drums (hydrostatic drive). These drives rely on shutting the hydraulic drive control to a neutral position for their service brakes. Operators must be aware that this type of control allows the roller to stop or start all movement quickly, and that this control is normally sensitive to any slight movement of the lever.

- **Ensure that all controls** are in the neutral, stop, or off position before starting the roller.
- **Ensure that** the area is clear of all personnel before moving the roller.
- **Check water** spraying or drip systems before operating the machine on asphalt.
- **Do not engage** the vibratory mechanism until the machine is traveling.
- **Be prepared** for quick starts and stops.
- **Always set the parking brake** when leaving the operators station while the engine is running. Do not rely on the hydraulic direction control to hold the machine at a stop since the vibration may shift the control to drive.
- **Keep speed low** when traveling over rough grade.
- **Never place** any body part directly in front of, or behind a roller drum while the engine is running.
- **Stop the roller** slowly, evenly, and completely before reversing direction.
- **Do not operate** the roller too close behind the paving machine when personnel are on the screed.
- **Ensure that** all coworkers are aware of the roller when operating near personnel (noise levels during paving operations are typically loud enough to mask the sound of your roller approaching). Never assume a person is aware of your presence.
- **Always be aware** of traffic movement and position when operating the roller in areas not closed to traffic.
- **Do not operate** the roller too close to vehicles, curb work, or structures; use a hand compactor to finish tight areas.
- **Do not operate** the roller in vibratory mode in the vicinity of excavations without first notifying the supervisor of the excavation operations.



Conclusion: The hazards of working with asphalt rollers are avoidable by using common sense, being an alert operator, providing proper training, and following the guidelines listed above.

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