

Safe Material Trimming Blitz Surface and Underground Mines

Sept 1st- Oct 31st, 2016

***Workplace Safety North
Webinar***

August 30th, 2016

Why Is The MOL Doing A Safe Material Tramming Blitz

- ❑ Between 2000 and 2015, 14 workers in the Ontario mining sector died while performing work related to tramming material with equipment.
- ❑ The Mining Health, Safety and Prevention Review, completed in 2015, identified mobile equipment and the risk of collisions as one of the five key issues that posed the greatest risk to worker health and safety.
- ❑ To raise the awareness of employers, supervisors and workers about the risks and hazards associated with tramming practices so that they better understand them, and use proper controls to reduce or eliminate the hazards.

IMPORTANT NOTE RE: Material Trimming

- ❑ For information purposes, this presentation references specific sections of Regulation 854 (Mines and Mining Plants) under the Occupational Health and Safety Act (OHSA) to highlight some key focus areas of Ministry of Labour (MOL) inspectors' activities during this Blitz. It is the employer's responsibility to be aware of all relevant requirements that are set out under the OHSA and its regulations.
- ❑ MOL inspectors may also check for compliance with requirements under the OHSA and its regulations that relate to issues other than trimming including training, procedures, etc.
- ❑ Inspectors will take enforcement action, as appropriate, if they find violations of the OHSA and any of its regulations.

Blitz Focus: Safe Material Tramming

- Ensure that underground and surface operations have measures and procedures in place to control tramming hazards
- Communication of traffic control procedures are in place and known by the workers
- Specific focus on remote mucking practices, work stations and procedures for remote mucking underground
- Ensuring that clothing meets the new requirements for high visibility safety apparel in place July 1, 2016.

Blitz focus:

Safe Material Tramming: Regulation 854

68. Where a workplace, travelway, manway or other area of an underground mine is under repair or where there is a danger or hazard to a worker,

(a) the workplace, travelway, manway or other area shall be closed by barricades, fencing or other suitable means; and

(b) warning signs shall be posted indicating that it is under repair or indicating the nature of the danger or hazard.

Blitz focus:

Safe Material Tramming: Regulation 854

84. (1) If a worker may be endangered by the withdrawal, collapse, shifting or movement of bulk material such as rock, ore or other material in a stope, pass or chute or in a storage area, the employer shall ensure that written procedures for the precautions to be taken before, during and after removal of the material are established and followed.

Blitz focus:

Safe Material Tramming: Regulation 854

84. (2) The written procedures required by subsection (1) shall address the following matters:
1. The conditions under which workers are required to wear a fall arrest system.
 2. The communication of hazards to all persons who may be at risk.
 3. The identification of those locations that are not safe for workers to enter.
 4. The need to post warning signs that indicate the nature of the danger or hazard and the need to erect barriers to prevent inadvertent access to the area.
 5. Any additional protection to be provided to workers required to enter or work in the area.

Blitz focus:

Safe Material Trammig: Regulation 854

103. (1) When in use, a motor vehicle running on rails, other than a standard gauge railroad, shall,

- (d) have an audible warning system that shall be sounded,
 - (i) where a worker may be endangered by the movement of the vehicle and cars, if any, or
 - (ii) whenever the vehicle and cars, if any, are about to move underground or in an enclosed building;

Blitz focus:

Safe Material Trimming: Regulation 854

105. (1) When in use, a motor vehicle, other than a motor vehicle running on rails, shall,

(a) be in safe working condition;

(b) have brakes which will stop and hold the vehicle under full load conditions on all operating grades, slopes and ramps;

(h) where operated by remote control or by an automated system, be so arranged that in the event of the failure of part of the control or system, the vehicle will be brought to a stop;

Blitz focus:

Safe Material Trimming: Regulation 854

105. (1) When in use, a motor vehicle, other than a motor vehicle running on rails, shall,

(j) except when used in an underground mine, have lights or reflectors that show the width of the vehicle to a person in the path of its direction of travel;

(k) where the motor vehicle is to be operated in reverse and the operator or another person may be endangered thereby, be operated only when another worker is stationed to direct and warn the operator of any hazard to himself or another person;

Blitz focus:

Safe Material Trimming: Regulation 854

105. (3) Where the view of the operator of a motor vehicle in the direction of its travel is limited,

(a) the vehicle shall be equipped with an audible or visible alarm that will warn a worker who may be endangered by the movement of the vehicle; and

(b) the alarm shall be activated before the vehicle is put in motion.

105. (6) Where motor vehicles that restrict the view of the operator because of size or design are used, procedures to control and govern the movement of such vehicles, other vehicles and pedestrians shall be established.

Blitz focus:

Safe Material Tramming: Regulation 854

106. (1) Where a motor vehicle is operated on a grade or ramp, traffic control procedures shall be established including provision for the control of emergency situations.
- (2) Where a motor vehicle is disabled or parked in the travelled portion of a roadway, a warning to approaching traffic shall be provided by,
- (a) flashing lights;
 - (b) flares;
 - (c) reflectors;
 - (d) lamps; or
 - (e) a worker suitably equipped to be readily seen, who directs traffic approaching the area.

Blitz focus:

Safe Material Tramming: Regulation 854

116. (1) Haulage roads on surface shall be designed, constructed and maintained to,
- (a) minimize hazards from the slipping or skidding of vehicles;
 - (b) enable vehicles to pass each other safely; and
 - (c) avoid steep grades wherever practical.
- (2) The open side of a ramp haulage road in a surface mine shall be provided with a suitable protective barrier.

Blitz focus:

Safe Material Trimming: Regulation 854

118. (1) When material is dumped from a vehicle that is occupied by a person, the dump point shall include features designed to prevent the vehicle from going over a bank, over a bench or into a raise or other open hole.

(2) In an underground mine, the features referred to in subsection (1) shall not include the use of a ridge of material.

Blitz focus:

Safe Material Tramming: Regulation 854

262. (2) Every worker in an underground mine shall wear,

(a) high visibility safety apparel that makes the worker visible to others in the workplace and that meets the requirements set out in subsection (3); and

(b) retro-reflective material applied to the front, back and sides of head gear.

Blitz focus:

Safe Material Trimming: Regulation 854

- 262.(3) High visibility safety apparel must meet the following requirements:
1. It shall be made of fluorescent or bright-coloured background material.
 2. It shall have retro-reflective striping that,
 - i. is located on the outside of the garment,
 - ii. measures at least 50 mm in width,
 - iii. completely encircles the waist, each arm and each leg below the knee,
 - iv. is arranged in two vertical lines on the front of the garment, extending over the shoulders and down to the waist, and
 - v. is arranged in the form of an “X” on the back of the garment, extending from the shoulders and down to the waist.

Blitz focus:

Safe Material Tramming: Regulation 854

262. (4) All high visibility safety apparel and all retro-reflective material on head gear must be maintained in good condition so that they adequately visually identify a worker.

263. (1) Effective illumination appropriate for the task shall be provided at all workplaces on the surface, including,

(a) in those areas adjacent to the workplace where workers are required to travel; and

(b) in those circumstances where the nature of the equipment or the operation may create a hazard to a worker due to insufficient lighting.

Blitz focus:

Safe Material Tramming: Regulation 854

263. (2) Subject to subsection (3), between sunset and sunrise, every worker on the surface shall wear,

(a) high visibility safety apparel that makes the worker visible to others in the workplace and that meets the requirements set out in subsection 262 (3); and

(b) retro-reflective material applied to the front, back and sides of head gear.

Blitz focus:

Safe Material Trimming: Regulation 854

263. (3) A worker is not required to comply with subsection (2) if the worker is in a booth, vehicle cab or another protective enclosure or if a work area is provided with fixed lighting that enables the worker to be seen.

263. (4) All high visibility safety apparel and all retro-reflective material on head gear must be maintained in good condition so that they adequately visually identify a worker.

Blitz focus:

Safe Trimming of Material Blitz: Additional Duties for Employers, Supervisors and Workers

- ❑ Sections 25, 26, 27 and 28 of the OHS Act set out the general duties of all employers, supervisors, and workers.

Amendments Coming into effect January 1, 2017

Note: On January 1, 2017, the following new requirements in Regulation 854 will come into effect:

105.1. (1) An employer at a mine shall, in consultation with the joint health and safety committee or health and safety representative, if any, develop and maintain a written traffic management program.

105.1. (2) The program shall include measures and procedures to,

(a) prevent collisions, of motor vehicles, that may endanger the health and safety of workers by addressing hazards relating to reduced or impeded visibility of motor vehicle operators; and

(b) protect the health and safety of workers and pedestrians who may be endangered by the movement of a motor vehicle.

Amendments Coming into effect January 1, 2017

105.1. (3) A copy of the program shall be provided to the joint health and safety committee or health and safety representative, if any, and shall be kept readily available at the mine site.

105.1. (4) The program shall be reviewed at least annually.

Disclaimer

LEGAL DISCLAIMER: *This presentation has been prepared to assist workplace parties in understanding some of their obligations under the [Occupational Health and Safety Act](#) (OHSA) and the regulations. It is not intended to replace the OHSA or the regulations and reference should always be made to the official version of the legislation.*

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