

DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES LICENSING AND REGULATORY AFFAIRS

BUREAU OF SAFETY AND REGULATION DIRECTOR'S OFFICE

GENERAL INDUSTRY SAFETY STANDARDS COMMISSION

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These rules become effective immediately upon filing with the Secretary of State unless adopted under section 33, 44, or 45a(6) of 1969 PA 306.

Rules adopted under these sections become effective 7 days after filing with the Secretary of State.

~~These rules take effect 15 days after filing with the Secretary of State~~

(By authority conferred on the director of the department of **licensing and regulatory affairs** ~~consumer and industry services~~ by sections 16 and 21 of **1974 PA 154, and Executive Reorganization Order Nos. 1996-2, 2003-1, 2008-4, and 2011-4, MCL 445.2001, 445.2011, 445.2025, and 445.2030** Act No. 154 of the Public Acts of 1974, as amended, and Executive Reorganization Order No. 1996-2, being §§408.1016, 408.1021, and 445.2001 of the Michigan Compiled Laws)

R 408.16211, R 408.16222, R 408.16227, and R 408.16236 of the Michigan Administrative Code are amended and R 408.16217 of the Code is rescinded as follows:

PART 62. PLASTIC MOLDING

R 408.16211. Employer responsibilities.

Rule 6211. (1) An employer shall provide training to an employee regarding the operating procedures, hazards, and safeguards of any assigned job.

(2) An employer shall not allow a machine to be operated which is not guarded as prescribed by this part or where the machine has a known defect which could affect the safety of an employee.

~~(3) An employer shall establish and maintain a lockout system as prescribed in subrule (3) of rule 6227.~~

R 408.16217. ~~Housekeeping.~~ **Rescinded.**

~~Rule 6217. Dust, scrap and spills of plastic materials shall be cleaned up and disposed of daily, or more often if it constitutes an employee hazard.~~

R 408.16222. Devices, guards, and protective equipment.

Rule 6222. (1) An electrical connection to a heated portion of a ram or screw cylinder shall be covered with a nonconducting guard or a grounded metal barrier to prevent contact with live terminals during normal operation of the machine.

(2) An exposed heated surface which could cause an injury shall be covered or guarded to prevent contact by an employee. This subrule does not apply to an area that requires accessibility, such as the adapter or grate on an extrusion machine.

(3) A machine that uses a blade or knife to cut plastic materials shall be guarded by a barrier, by position, or by a device to prevent contact between the operator and the machine.

~~(4) An employee, if exposed to the possibility of burns from a heated surface which cannot be covered or guarded, shall use heat resistant personal protective equipment that is provided by the employer to the employee at no expense to the employee.~~

~~(5) The effectiveness of a safeguard shall not be diminished when auxiliary equipment is applied to or from a plastic molding machine.~~

R 408.16227. Lubrication and maintenance.

Rule 6227. (1) Lubrication of a machine shall be accomplished by 1 of the following:

(a) Manually when the machine can be shut off and locked out.

(b) An automatic pressure or gravity feed system.

(c) An extension pipe leading to an area outside of the guards or away from any hazard.

~~(2) In any case, R 408.10732, on lubrication of the general industry safety standards commission standard, Part 7. Guards for Power Transmission, shall apply.~~

(2) (3) Except as permitted in R 408.16234(10), each employee doing the work shall lock out the power source of the machine or equipment to be repaired or serviced if unexpected motion would cause injury. Any residual pressure which would be hazardous shall be relieved before and remain relieved during work by an employee doing the work.

R 408.16236. Vacuum and thermoforming.

Rule 6236. (1) An in-line automatic vacuum forming or trim press that is used to form or die cut vacuum-formed pieces shall have the point of operation and all moving parts guarded that would otherwise be exposed to contact.

~~(2) A punch press that is used to trim or die cut vacuum or thermoformed pieces shall be guarded as prescribed in general industry safety standard Part 23. Hydraulic Power Presses, being R 408.12301 et seq. of the Michigan Administrative Code, or Part 24. Mechanical Power Presses, being R 408.12401 et seq. of the Michigan Administrative Code.~~

(2) ~~(3)~~ A trim machine that uses a moving roll to supply pressure to the top die shall be provided with devices that are designed to keep both hands of the operator from the point of operation when the die closes.

(3) ~~(4)~~ Toggles on an automatic vacuum or thermoforming press shall be guarded by a barrier to prevent access to the pinch point.

(4) ~~(5)~~ A rotary vacuum forming machine shall be equipped with a 2-hand control device that is located and timed as prescribed by the provisions of R 408.16225(1)(b) and R 408.16226(7).

(5) ~~(6)~~ Where a hazard exists due to movement or heating, the area below the level of the lower mold on a vacuum forming machine shall be guarded.

(6) ~~(7)~~ An indexing machine shall be equipped with a stop control, such as a paddle switch, that is interlocked to stop the indexing operation. The stop control shall be located ahead of the first point of operation or pinch point beyond the work station.