

Amendments to OAC 4123:1-5--Workshops and Factories
Effective April 10, 2011

4123:1-5-02 GUARDING FLOOR AND WALL OPENINGS AND HOLES

--(D)(3) ELEVATED PLATFORMS - OPENINGS

- Openings in floors for drainage, ventilation, etc. that are elevated four feet (4') or more above ground level where workers are working below, shall not be greater than one inch (1") in width (used to be "six feet or more...").

--(E)(1) METAL GUARD RAILINGS

- Increased thickness requirements of top rail and intermediate railings to 1½" nominal diameter pipe, or 2" x 2" x 3/8" angle.

--(E)(2) WOOD GUARD RAILINGS

- Top rail and uprights requirements increased to not less than 2" x 4" (nominal) stock.
- Intermediate rails requirements increased to not less than 2" x 4" (nominal) stock.

--(E)(3) TOE BOARDS

- Must be secured with no more than ¼" clearance between bottom of toe board and level of floor (used to be ½").
- Where material stacked too high for toe board to be effective, paneling required from floor to intermediate rail.

--(I) HANDRAILS

- Maximum acceptable height above top surface of tread over face of riser is 34" in height (down from 42").

4123:1-5-03 LADDERS AND SCAFFOLDS

--(C)(4) STEPLADDERS

- (a) Height - Stepladders shall not exceed 20' in length (used to be "height").
- (b) Spreader - Must be metal (used to be "substantial").

--(C)(5) SECTIONAL LADDERS

- (a) Length - Sectional ladders shall not exceed 60' in extended length (used to be 37').

--(D)(1)(a)(ii) STATIONARY CONSTRUCTION SCAFFOLD DIMENSIONS

- Planks used shall be a minimum width of nine inches (9’) (changed from ten inches (10’)).

--(D)(1)(d) STATIONARY SCAFFOLD SIDE SCREENS

- Side screens now required on all scaffolds regardless of height when workers are required to work or pass under scaffolds (rule used to kick in at ten feet (10’).)
- Increased specifics for material to be used for side screen.

--(D)(1)(c)(iii) STATIONARY SCAFFOLD GUARDING

- When guard rail not practical, safety harness must be used (safety “belt” was old language).

--(D)(1)(e) LADDER OR RAMP ACCESS

- Access ladder or equivalent safe access required regardless of height (rule used to kick in at four feet (4’)).

4123:1-5-04 MECHANICAL POWER TRANSMISSION APPARATUS

--(C) (1)(a) BELTS AND PULLEYS - HORIZONTAL BELTS

- Requires that guard extend 15’ above top run of horizontal belt if less than 7 feet above floor level (no prior height requirement as long as top, bottom, sides and ends were enclosed).

4123:1-5-07 HAND TOOLS...AND PORTABLE SAFETY CONTAINERS

--(H)(3) POWER CUT-OFF AND PRESSURE CONTROL DEVICES -- USE OF COMPRESSED AIR

- Employer must instruct employees that compressed air shall not be used to clean themselves off (underlined is new language).

--(M) PORTABLE SAFETY CONTAINERS

- Portable safety containers shall be provided for handling flammable liquids with flash point (closed cup) below 100 degrees Fahrenheit in quantities of one gallon or more (prior language indicated “below 138.2 degrees”).

4123:1-5-10 MECHANICAL POWER PRESSES

--(C)(5)(e)(vii) MECHANICAL POWER PRESS GUARDING - MACHINES USING PART REVOLUTION CLUTCHES - TWO-HAND CONTROLS FOR SINGLE STROKE

- If foot control provided, selection between hand or foot control shall be separate from stroking selector and designed so selection may be supervised by the employer. (old

language required that selection of hand or foot control would make un-chosen selection inoperable and had no “supervisory” component).

4123:1-5-13 MOTOR VEHICLES, MOBILE MECHANIZED EQUIPMENT...

--(C)(3) GENERAL REQUIREMENTS

- Parking on inclines -- safety procedure for when vehicle is “unattended” redefined as “out of sight or more than 25 ft. (25’) from operator (used to say “more than 20 ft...”).

4123:1-5-14 POWER-DRIVEN CRANES AND HOISTS

--(C)(1)(a) OVERHEAD ELECTRIC TRAVELING CRANES - EQUIPMENT - BRAKES

- Heightened minimum standards for holding brakes on hoist motors based on percentage of full load hoisting torque.

--(C)(1)(d) OVERHEAD ELECTRIC TRAVELING CRANES - EQUIPMENT - BUMPERS

- Loosened absolute requirement of having bumpers in favor of other means with equivalent effect and considers speed and deceleration ability/technology.

--(D)(2)(A) ELECTRIC JIB CRANES - EQUIPMENT - HOLDING BRAKE

- Heightened minimum standards for holding brakes on hoist motors based on percentage of full load hoisting torque.

--(E)(2)(d) ELECTRIC SINGLE RAIL CRANES AND HOISTS

- Heightened minimum standards for holding brakes on hoist motors based on percentage of full load hoisting torque.

--(F)(2)(b)(i) ELECTRIC GANTRY CRANES - EQUIPMENT - BUMPERS, STOPS AND RAIL STOPS

- Heightened minimum standards for holding brakes on hoist motors based on percentage of full load hoisting torque.

4123:1-5-16 CUTTING AND WELDING

--(E)(3)(A)(II) HOSE IN WHICH FLASHBACK HAS OCCURRED

- For hoses taken out of service due to having had a flashback, flashback protection now shall be provided by approved device that will prevent flame from passing into fuel-gas system.

--(E)(3)(a)(v) DAMAGED OR DEFECTIVE HOSE

- Can now be repaired or replaced instead of having to be “removed.”

4123:1-5-17 PERSONAL PROTECTIVE EQUIPMENT

--(D)(4) MATERIAL REQUIREMENTS FOR EYE PROTECTION SHALL MEET ANSI 287.1-1968 (ALL REQUIREMENTS REMOVED AS PREVIOUSLY UNDER (D)(4)).

--(G)(1)(c) HEAD AND HAIR PROTECTION - HAIR ENCLOSURES *NEW SUBSECTION* (previously existing rule relocated to this new subsection)

- Must be provided where hair is in danger of moving parts or where means of ignition present.

--(G)(1)(a)(i) HEAD AND HAIR PROTECTION - RESPONSIBILITY - EMPLOYER

- Where required, head protection shall meet requirements of ANSI 289.1-1969. ((G)(2) Protection Helmet Section removed).

--(I)(6) SAFETY BELTS, HARNESS, LIFELINES AND LANYARDS

- Shall be provided by Employer (previously unspecified) and responsibility of employee to wear.
- For 6 feet (6') or higher (previously unspecified) and when required to work in silos, hoppers, tanks and similar storage areas.
- Shall sustain static load of no less than 3,000 pounds (down from 4,500 pounds).

--(I)(7) SAFETY NETS

- (a) Required when 30 feet or more above ground/water and ladders, scaffolds, etc. are impractical (was 25 feet).
- (c) Nets no more than 30 feet below work surface - except for bridges, which have separate rule (was 25 feet).

--4123:1-5-18 CONTROL OF AIR CONTAMINANTS

--(C)

- Minimization efforts only required for “hazardous concentrations” of air contaminants (new insertion of language).

4123:1-5-20 ROOF CAR SUSPENDED PLATFORMS

--SAFETY BELTS AND LIFELINES

- Old section replaced and now employees on working platforms shall be protected by a personal fall system meeting the requirements of Appendix C to Section I of 29 CFR 1910.66 (adopted Federal rule).

--4123:1-5-26 TRENCHES AND EXCAVATIONS

--(C) EXCAVATIONS

- (2) Supporting systems, i.e. piling, cribbing, shoring shall be designed by a qualified person and shall meet accepted engineering requirements (underlined is new language- was generic language “to prevent cave in”).
- (4) Sides, slopes and faces of all excavations must meet accepted engineering requirements (replaced “be made safe”).

4123:1-5-29 EXPLOSIVES AND BLASTING

(A)(5) SPECIFIC REQUIREMENTS FOR ALL BLASTING OPERATIONS

- Advance notice required for blasting near utilities by notifying proper representative of such utilities at least 24 hours in advance of blasting -- confirmed in writing.

4123:1-5-99 TABLE OF STANDARD MATERIALS AND DIMENSIONS

- New table in effect.