

Joint Loss Management Committee

Safety Manual Appendix

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600

CHAPTER Lab 600 SAFETY PROGRAMS AND JOINT LOSS MANAGEMENT COMMITTEES

REVISION NOTE:

Document #5909, effective 10-13-94, made extensive changes to the wording, format, structure, and numbering of rules in Chapter Lab 600. Document #5909 supersedes all prior filings for the sections in this chapter. The prior filings for former Chapter Lab 600 include the following documents:

Source. #5372, eff 4-14-92

PART Lab 601 DEFINITIONS

Lab 601.01 "Employer representative" as used in RSA 281-A: 64 III means any individual who serves as the management member of the joint loss management committee and who has the authority delegated by the employer to use his/her judgment in the interest of the employer to take the following actions:

- (a) Hire;
- (b) Transfer;
- (c) Suspend;
- (d) Lay off;
- (e) Recall;
- (f) Promote;
- (g) Discharge;
- (h) Assign;
- (i) Reward;
- (j) Discipline;
- (k) Direct them; or
- (l) Adjust grievances or effectively to recommend such actions.

Source. (See Revision Note at chapter heading for Lab 600) #5909, eff 10-13-94, EXPIRED: 10-13-00;
New. #8592, eff 3-24-06

PART Lab 602 SAFETY PROGRAMS

Lab 602.01 Program Requirements. As set forth in RSA 281-A: 64, II, the written safety program shall include the following:

- (a) The components required by Lab 603.03(g);
- (b) The process of warnings, job suspension, and job termination for violations of the safety rules and regulations set forth in the program;
- (c) Provision(s) for the commitment of adequate resources solely for safety;
- (d) Provision(s) for medical services, emergency response, first aid, and accident reporting and investigation; and
- (e) Provision(s) for review of the current written safety program by all employees.

Source. (See Revision Note at chapter heading for Lab 600) #5909, eff 10-13-94, EXPIRED: 10-13-00;
New. #8592, eff 3-24-06

Lab 602.02 Filing Procedures.

To carry out the intent of RSA 281-A: 64, II, a summary of the above written safety program shall be filed with the commissioner of labor on a biennial basis by January 1st by submitting Safety Summary Form No WCSSF pursuant to Lab 515.16.

Source. (See Revision Note at chapter heading for Lab 600) #5909, eff 10-13-94; ss by # #6735, eff 4-23-98; ss by #8592, eff 3-24-06

PART Lab 603 JOINT LOSS MANAGEMENT COMMITTEES

Lab 603.01 Purpose. To carry out the purpose of RSA 281-A: 64, a joint loss management committee is to bring workers and management together in a non-adversarial, cooperative effort to promote safety and health in each workplace. A joint loss management committee assists the employer and makes recommendations for change.

Source. (See Revision Note at chapter heading for Lab 600) #5909, eff 10-13-94, EXPIRED: 10-13-00;

New. #8592, eff 3-24-06

Lab 603.02 Establishment of Joint Loss Management Committee

- (a) Pursuant to RSA281-A: 64, III, all employers of 5 or more employees shall establish a working joint loss management committee composed of equal numbers of employer and employee representatives as follows:
 - (1) The size of the joint loss management committee shall be determined as follows:
 - a. Employers with 20 or fewer employees shall have a minimum of 2 members; and,
 - b. Employers with more than 20 employees shall have a minimum of 4 members.
 - (2) Employee representatives shall be selected by employees;
 - (3) Where the employees are represented by a single, exclusive bargaining representative, the bargaining representative shall designate the members;
 - (4) Where the employees are represented by more than one labor organization or where some but not all of the employees are represented by a labor organization, each bargaining unit of represented employees and any residual group of employees not represented shall have a proportionate number of committee members based on the number of employees in each bargaining unit or group; and
 - (5) Committee members shall be representative of the major work activities of the employer
- (b) An employer's auxiliary, mobile or satellite location, may be combined into a single, centralized joint loss management committee when an employer owned/leased facility is physically and/or geographically separated from the employer's primary facility such as would be found in construction operations, trucking, branch or field offices, sales operations or highly mobile activities, which shall represent the safety and health concerns of all locations.
- (c) A joint loss management committee shall be located at each of the employer's primary places of employment at a major economic unit at a single geographic location comprised of a building or group of buildings and all surrounding facilities. The location shall have both employer and employee representatives present, control of a portion of a budget, and the ability to take action on the majority of the recommendations made by the joint loss management committee.
- (d) Committee members shall be trained in workplace hazard identification and accident/incident investigation adequate to carry out the committee's responsibilities.

Source. (See Revision Note at chapter heading for Lab 600) #5909, eff 10-13-94, EXPIRED: 10-13-00;

New. #8592, eff 3-24-06

Lab 603.03 Duties and Responsibilities of Joint Loss Management Committee

To carry out the intent of RSA 281-A: 64, the joint loss management committee shall:

- (a) Meet at least quarterly to carry out their duties and responsibilities.
- (b) Keep minutes of meetings which shall be made available for review of all employees;
- (c) Elect a chairperson, alternating between employee and employer representatives;
- (d) Develop and disseminate to all employees a committee policy statement;

- (e) Maintain current and disseminate to all employees the clearly established goals and objectives of the committee;
- (f) Review workplace accident and injury data to help establish the committee's goals and objectives;
- (g) Establish specific safety programs which include, but are not be limited to, the following:
 - (1) Designation, by name and title, of a person who shall be knowledgeable of site specific safety requirements and be accountable for their implementation and adherence;
 - (2) Provisions for health and safety inspections at least annually for hazard identification purposes;
 - (3) Performance of audits at least annually regarding the inspection findings; and
 - (4) Communication of identified hazards, with recommended control measures, to the person(s) most able to implement controls;
- (h) Assist with the identification of necessary safety and health training for employees; and
- (i) Assist with the identification and definition of temporary, alternate tasks.

Source. (See Revision Note at chapter heading for Lab 600) #5909, eff 10-13-94, EXPIRED: 10-13-00;
New. #8592, eff 3-24-06

Lab 603.04 Duties and Responsibilities of the Employer.

To carry out the intent of RSA 281-A: 64, the employer shall:

- (a) Respond in writing to recommendations made by the committee, or make a verbal response that is recorded in the committee's official minutes,
- (b) Pay any employee who participates in committee activities in his/her role as a committee member, including, but not limited to, attending meetings, training activities, and inspections, at his/her regular rate of pay for all time spent on such activities; and
- (c) Provide for the required and necessary safety and health training for employees, at no cost and without any loss of pay so they can perform their work in a safe and healthy manner and environment.

Source. (See Revision Note at chapter heading for Lab 600) #5909, eff 10-13-94, EXPIRED: 10-13-00;
New. #8592, eff 3-24-06

APPENDIX

RULE	STATUTE
Lab 601	RSA 281-A: 64
Lab 602	RSA 281-A: 64
Lab 603	RSA 281-A: 64

State of NH
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1400

CHAPTER Lab 1400 SAFETY AND HEALTH OF EMPLOYEES

Statutory Authority: RSA 281-A: 60 I. (o) and RSA 277:16

PART Lab 1401 SCOPE OF RULES

Lab 1401.01 Scope. This rule is intended to carry out the intent of RSA 281-A: 64 and RSA 277: 16 by establishing procedures and guidelines for workplace safety inspections.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1401.02 Applicability. These rules shall be applicable to all workplaces including workplaces in buildings, sheds, structures, offices, sites or places owned, leased or used in connection with employee activity at a place of employment in the State. The following requirements shall not preclude compliance with RSA 155-A, the State Building Code or other state or federal laws, rules, regulations or codes. If a conflict should arise between these rules and any other law, rule, regulation or code, these rules shall not supersede the more stringent requirements.

Source. #8796, eff 1-11-07 (from Lab 1401.01)

PART Lab 1402 DEFINITIONS

Lab 1402.01 "Competent person" as used in this chapter means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has the authority to take prompt corrective measures to eliminate them.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1402.02 "Confined space" as used in this chapter means a space that meet the following criteria:

- (a) Large enough and so configured that an employee can bodily enter and perform assigned work; and
- (b) Has limited or restricted means for entry or exit; and
- (c) Is not designed for continuous employee occupancy; and
- (d) Contains or has a potential to contain a hazardous atmosphere; or
- (e) Contains a material that has the potential for engulfing an entrant; or
- (f) Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section; or
- (g) Contains any other recognized serious safety or health hazard.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1402.03 "Fixed location" as used in this chapter means all buildings, offices, garages, or other permanent structures which serve as a regular place of employment.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07 (formerly Lab 1402.04)

Lab 1402.04 – 1402.09 - EXPIRED

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

PART Lab 1403 RULES FOR EMPLOYEE SAFETY AND HEALTH

Lab 1403.01 Safety and Health Requirements.

(a) Each employer shall furnish to each of its employees employment and a place of employment that are free from recognized hazards that are causing or are likely to cause death or serious physical harm to its employees.

(b) Each employee shall comply with all safety rules and regulations that are applicable to their own actions and conduct.

(c) The employer shall instruct each employee in the recognition and avoidance of unsafe conditions and in the rules applicable to his work environment to control or eliminate any hazards or other exposure to illness or injury.

(d) The use of any machinery, tool, material, or equipment which is not in compliance with any applicable requirement of these rules shall be prohibited.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1403.02 Abrasive Blasting.

(a) Blast cleaning nozzles shall be equipped with an operating valve which shall be held open manually. A support shall be provided on which the nozzle may be mounted when not in use.

(b) Blast cleaning enclosures shall be exhaust ventilated in such a way that a continuous inward flow of air shall be maintained at all openings in the enclosure during the blasting operation.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1403.03 Abrasive Grinding.

(a) Abrasive wheels shall be used only on machines provided with safety guards.

(b) The following shall be exempt from the safety guard requirements:

(1) Wheels used while within the material being ground; and

(2) Mounted wheels, used in portable operations, 2 inches and smaller in diameter.

(c) Abrasive wheel safety guards for bench and floor stands and for cylindrical grinders shall not expose the

grinding wheel periphery for more than 65 degrees above the horizontal plane of the wheel spindle. The protecting member shall be adjustable for variations in wheel size so that the distance between the wheel periphery and adjustable tongue or end of the peripheral member at the top shall never exceed 1/4 inch.

(d) Abrasive wheel safety guards shall cover the spindle end, nut, and flange projections.

(e) An adjustable work rest of rigid construction shall be used to support the work on offhand grinding machines. Work rests shall be kept adjusted closely to the wheel with a maximum clearance of 1/8 inch.

(f) Machines designed for a fixed location shall be securely anchored to prevent movement, or designed in such a manner that in normal operation they shall not move.

(g) All abrasive wheels shall be closely inspected and ring-tested before mounting to insure that they are free from defects.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1403.04 Accident Reporting Requirements. Within 8 hours after its occurrence, an employment accident which is fatal to one or more employees or which results in the hospitalization of 3 or more employees shall be reported to the commissioner of labor. Notification may be given by telephone by calling (603) 271-6297, 271-6850, 271-3699, or 271-3170.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1403.05 Aerial Lifts.

(a) All vehicle mounted aerial-lift equipment shall be in accordance with American National Standards Institute (ANSI) A92.2-1979, "Vehicle-Mounted Elevating and Rotating Aerial Platforms".

(b) Prior to the use of an aerial-lift device, a visual inspection and operational check shall be made in accordance with the manufacturer's and owner's instructions, by a competent person.

(c) Operators of aerial-lift equipment shall be provided with some means of anchorage to which a safety belt or lanyard can be secured to the buckets, platforms, or booms.

(d) The combined load, including workers, material, and tools, shall not exceed the rated lift capacity as stated by the manufacturer. Such rated lift capacity shall be conspicuously and permanently posted on the lift.

(e) When operating an aerial-lift device, the operator shall look in the direction of travel of the bucket and be aware of the booms in relation to all other objects and hazards.

(f) All hoses affecting the nonconductive characteristics of equipment shall be made of nonconductive material. Hydraulic fluids for insulated equipment shall be of the insulating type.

(g) An aerial-lift truck shall not be moved when the boom is elevated in a working position with workers in the basket, except for equipment that is specifically designed for this type of operation. The booms of a fully articulated aerial device shall not be considered elevated in a working position when the basket is directly in front of or behind the truck with the booms held as low as feasible and low enough so that the operator's head is below the highest point of the vehicle.

(h) During aerial-lift operations, workers not engaged in line clearance shall maintain a minimum clearance of 10 feet (3 m) from energized conductors rated 50 kV phase-to-phase or less. For lines rated over 50 kV phase-to-phase the minimum clearance shall be 10 feet plus .4 inches (3 m plus 10 mm) for each kilovolt over 50 kV phase-to-phase.

- (i) This section shall not apply to fire fighting apparatus.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1403.06 Air Tools.

(a) Pneumatic power tools shall be secured to the hose or whip with a locking mechanical connector to prevent accidental disconnection.

(b) Safety clips or retainers shall be securely installed and maintained on pneumatic impact tools to prevent attachments from being accidentally expelled.

(c) The manufacturer's safe operating pressure for all fittings shall not be exceeded.

(d) All hoses exceeding 1/2 inch inside diameter shall have a safety device at the source of supply or branch line to reduce pressure in case of hose failure.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06

New. #8796, eff 1-11-07

Lab 1403.07 Belt Sanding Machines. Belt sanding machines shall be provided with guards at each nip point where the sanding belt runs onto a pulley.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.08)

New. #8796, eff 1-11-07

Lab 1403.08 Blood Borne Pathogens. Universal precautions, an approach to infection control in which all human blood and certain human body fluids are treated as if known to be infectious, shall be observed in all situations where there is a potential for contact with blood or other potentially infectious material and the following requirements shall be met:

(a) All human blood and body fluids shall be treated as if known to be infectious for HIV, HBV, and other blood borne pathogens.

(b) Employees responding to emergencies or other situations where blood or body fluids are present shall wear single use disposable gloves, such as surgical or examination gloves, wash hands after removal of gloves, and wear eye protection when blood or other potentially infectious materials might be splashed.

(c) Work procedures shall include safe handling and disposal of needles and sharps, used bandages and gauze, linens, and all other items that come in contact with blood or other potentially infectious materials.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.09)

New. #8796, eff 1-11-07

Lab 1403.09 Chains, Cables, Ropes, and Hooks.

(a) Chains, cables, ropes, and hooks shall be visually inspected daily by a competent person, for deformation, cracks, excessive wear, twists and stretch, and defective gear shall be replaced or repaired.

(b) Hoist ropes on crawler, locomotive, and truck cranes shall be free from kinks or twists and shall not be wrapped around the load.

(c) All U-bolt wire rope clips on hoist ropes shall be installed so that the U-bolt is in contact with the short or nonload-carrying end of the rope. Clips shall be installed in accordance with the clip manufacturer's recommendation. All nuts on newly installed clips shall be retightened after the first hour of use.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.10)

New. #8796, eff 1-11-07

Lab 1403.10 Chipguards. Protective shields or barriers shall be provided in operations involving cleaning with compressed air, to protect personnel against flying chips or other such hazards.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.11)

New. #8796, eff 1-11-07

Lab 1403.11 Compressed Air Use. Compressed air used for cleaning purposes shall not exceed 30 psi. However, this limitation shall not apply to concrete form or mill scale, or to areas where compressed air is used in a fixed process, such as attached to a machine.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.12)

New. #8796, eff 1-11-07

Lab 1403.12 Compressed Gas Cylinders.

(a) Valve protection caps shall be in place when compressed gas cylinders are transported, moved, or stored.

(b) Cylinder valves shall be closed when work is finished and when cylinders are empty or are moved.

(c) Compressed gas cylinders shall be secured in an upright position at all times, except if necessary for short periods of time when cylinders are actually being hoisted or carried.

(d) Cylinders shall be kept far enough away from the actual welding or cutting operation or protected by a fire resistant barrier so that sparks, hot slag, or flame will not reach them. When this is impractical, fire resistant shields shall be provided, as required by NFPA 51B.

(e) Oxygen cylinders in storage shall be separated from fuel-gas cylinders or combustible materials a minimum distance of 20 feet or by a noncombustible barrier at least 5 feet high having a fire-resistance rating of at least 1/2 hour.

(f) Compressed gas shall not be used for cleaning purposes.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRES: 10-09-06 (formerly Lab 1403.13)

New. #8796, eff 1-11-07

Lab 1403.13 Concrete, Concrete Forms, and Shoring.

(a) Employees shall not work above vertically protruding reinforcing steel, unless it has been protected to eliminate the hazard of impalement.

(b) Powered and rotating-type concrete troweling machines that are manually guided shall be equipped with a deadman-type operating control.

(c) Formwork and shoring shall safely support all loads imposed during concrete placement. Drawings or plans of jack layout, formwork, shoring, working decks, and scaffolding systems shall be available at the jobsite.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED 10-09-06 (formerly Lab 1403.14)

New. #8796, eff 1-11-07

Lab 1403.14 Confined Space Entry. The employer shall evaluate the workplace to determine if any areas are confined spaces as defined under Lab 1402.02. If an area is found to be a confined space the employer shall meet the following requirements:

(a) The employer shall inform exposed employees by posting danger signs or by any other equally effective means of the existence and location of and the danger posed by the confined spaces.

(b) A minimum of 2 employees shall be assigned to the work activity involving entry into a confined space. One employee shall act as an attendant/observer and remain outside of the space for the duration of the entry operation.

(c) Conditions in the confined space shall be tested before entry operations and monitored while employees are in the confined space.

(d) Testing required by (c) above shall include testing of the internal atmosphere with a calibrated direct reading instrument, for the following conditions in the order listed:

- (1) Oxygen content;
- (2) Flammable gases and vapors; and
- (3) Potential toxic air contaminants.

(e) The employer shall establish and implement the means, procedures and practices required to eliminate or control hazards and make the confined space safe for conducting entry operations including purging, making inert, flushing or ventilating the confined space.

(f) Confined space entrants shall use appropriate personal protective and retrieval equipment. The retrieval equipment shall allow for attendant /observer non-entry rescue.

(g) The employer shall provide training so that all employees whose job duties involve confined space entry procedures acquire the understanding, knowledge, and skills necessary for the safe performance of the duties assigned to them.

- (1) The above training shall include the nature of the hazards involved, the necessary precautions to be taken and in the use of personal protective and any other equipment necessary for safe entry.

(h) A procedure shall be implemented which shall require documentation that the above steps were taken prior to entering a confined space.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.15)

New. #8796, eff 1-11-07

Lab 1403.15 Cranes and Derricks.

(a) The employer shall comply with the manufacturer's specifications and limitations as supplied by the manufacturer.

(b) Rated load capacities, recommended operating speeds, and special hazard warnings or instructions shall be conspicuously posted on all equipment and complied with. Instructions or warnings shall be visible from the operator's station.

(c) Equipment shall be inspected by a competent person before each use and during use, and all deficiencies corrected before further use.

(d) Accessible areas within the swing radius of the rear of the rotating superstructure shall be barricaded to prevent employees from being struck or crushed by the crane.

(e) No part of a crane or its load shall be operated:

- (1) Within 10 feet of a line rated 50 kV or below;
- (2) Within 10 feet + 0.4 inches for each 1 kV over 50 kV for lines rated over 50 kV, or;
- (3) Within twice the length of the line insulator, but never less than 10 feet.

(f) The requirements of the above do not apply where electrical distribution and transmission lines have been de-energized and visibly grounded at point of work, or where insulating barriers have been erected to prevent physical contact with the lines.

(g) All crawler, truck, or locomotive cranes in use shall meet the requirements as prescribed in the ANSI B30.5-1982, Safety Code for Crawler, Locomotive and Truck Cranes, as amended by B30.5a-1984, and B30.5b-1985.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.16)

New. #8796, eff 1-11-07

Lab 1403.16 Disposal Chutes.

(a) Whenever materials are dropped more than 20 feet to any exterior point of a building, an enclosed chute shall be used.

(b) When debris is dropped through holes in the floor without the use of chutes, the area where the material is dropped shall be enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edges of the opening above. Warning signs of the hazard of falling material shall be posted at each level.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab

1403.18)

New. #8796, eff 1-11-07

Lab 1403.17 Dock-boards. Dock-boards, meaning metal plates used to bridge the gap between a loading dock and truck over which industrial trucks travel to load or unload shall meet the following requirements:

- (a) Dock-boards shall be strong enough to carry the load imposed on them; and
- (b) Dock-boards that are portable shall be anchored or equipped with devices which shall prevent their slipping. They shall have handholds or other effective means to allow safe handling; and
- (c) Wheel chocks or other devices shall be provided to prevent railroad cars from being moved while dock-boards are in position.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.19)

New. #8796, eff 1-11-07

Lab 1403.18 Ergonomics.

(a) It shall be the responsibility of each employer to evaluate all incidences of ergonomically related injuries, such as repetitive motion trauma, carpal tunnel syndrome and back injuries, and to make necessary workplace modifications to prevent recurrences.

(b) The employer shall develop training procedures for employees who might be subject to ergonomic exposures such as those listed above.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.22)

New. #8796, eff 1-11-07

Lab 1403.19 Excavating and Trenching.

(a) Before excavation, underground utilities shall be identified and marked, and utility companies contacted to determine if there are underground utility installations in the area.

(b) A competent person as defined in Lab 1402.01 shall inspect and evaluate the condition of all trenches and excavations prior to permitting an employee to enter.

(c) An inspection shall be performed at the beginning of each day and at least 3 to 4 times during the workday thereafter; and

(1) Attention shall be given when adverse weather conditions might affect the condition of the excavation trench.

(2) If evidence of possible cave-ins or slides is apparent, all work in the excavation shall cease until the requirement of (d) below have been met to safeguard the employees.

(d) The walls and faces of trenches 5 feet or more deep, and all excavations, in which employees are exposed to danger from moving ground or cave-in shall be guarded by a trench protective system, or sloping of the ground.

(e) In excavations which employees might be required to enter, excavated or other material shall be stored and retained at least 2 feet or more from the edge of the excavation.

(f) Trenches 4 feet deep or more shall have an adequate means of exit such as ladders or steps in the protected area of the trench. The exit shall be located so as to require no more than 25 feet of lateral travel.

(g) Excavations near retaining walls, utility poles and other objects that are supported by compacted soil shall be supported at all times to prevent their collapse or undermining.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.23)

New. #8796, eff 1-11-07

Lab 1403.20 Fall Protection.

(a) Each employee on a walking/working surface with an unprotected side or edge which is 4 feet or more above a lower level shall be protected from falling by the use of guardrail systems, safety net systems or personal fall arrest systems.

(b) The requirement in (a) above shall apply to the following surfaces:

- (1) Hoist areas;
- (2) Holes;
- (3) Form-work and reinforcing steel;
- (4) Ramps;
- (5) Runways and walkways;
- (6) Excavations;
- (7) Bricklaying;
- (8) Working above dangerous equipment;
- (9) Roofing work;
- (10) Pre-cast concrete erection;
- (11) Wall openings; and
- (12) Other walking/working surfaces.

(c) This section shall not apply to stairways, ladders and scaffolds, cranes and derricks or steel erection.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.25)

New. #8796, eff 1-11-07

Lab 1403.21 Flagperson.

(a) At work sites on or adjacent to a highway or street, where signs, signals, and barricades do not provide protection from traffic, a flag-person shall be provided.

(b) A flag-person shall be provided with and shall wear a highly visible warning garment while flagging. Warning garments worn during low-light conditions or at night shall be equipped with retro-reflectorized material that is visible through the full range of the flag person's body motions.

(c) A flag-person shall be provided with and shall use a combination Stop/Slow Paddle while flagging. The paddle shall be:

- (1) Highly visible; and,
- (2) At least 18 inches in height and width; and,
- (3) The lettering at least 6 inches in height.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.29)

New. #8796, eff 1-11-07

Lab 1403.22 Floor Openings and Open Sides.

(a) Every stairway and ladderway floor opening shall be guarded by a standard railing on all exposed sides except at the entrance. The entrance to ladderway openings shall be guarded to prevent a person from walking directly into the opening.

(b) Every hatchway and chute floor opening shall be guarded by a hinged floor opening cover equipped with standard railings to leave only one exposed side or a removable railing with toeboard on not more than 2 sides and fixed standard railing with toeboards on all other exposed sides.

(c) Every floor hole into which persons can accidentally walk shall be guarded by either a standard railing with standard toeboard on all exposed sides, or a floor hole cover capable of supporting at least twice the weight of employees, equipment, and materials that might be imposed on the cover at any one time. All covers shall be secured to prevent accidental displacement and shall be marked with the word "hole" or "cover" to provide warning of the hazard.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.32)

New. #8796, eff 1-11-07

Lab 1403.23 Forklift Trucks and Powered Industrial Trucks.

(a) If at any time a powered industrial truck is in need of repair, defective, or in any way unsafe, the truck shall be taken out of service until it has been restored to safe operating condition.

(b) Forklift trucks with extended lifts shall be equipped with an overhead guard unless operating conditions do not permit.

(c) Fork trucks shall be equipped with a vertical load backrest extension when the type of load presents a hazard to the operator.

(d) The brakes of highway trucks and trailers shall be set and wheel chocks placed under the rear wheels to prevent the truck from rolling while forktrucks are entering or leaving.

(e) Employers shall verify that the above equipment shall be operated by competent individuals as defined in Lab 1402.01.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab

1403.33)

New. #8796, eff 1-11-07

Lab 1403.24 Guards. Guards for mechanical power transmission equipment shall be made of metal or other rigid material. Except that, wood guards may be used in the woodworking and chemical industries, in industries where atmospheric conditions would rapidly deteriorate metal guards, or where temperature extremes make metal guards undesirable.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92New. #6684, eff 2-4-98, EXPIRED: 2-4-06New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.34)New. #8796, eff 1-11-07

Lab 1403.25 Hand Tools.

(a) Each employer shall be responsible for the safe condition of tools and equipment used by employees, including tools and equipment furnished by employees.

(b) All hand tools shall be kept in safe condition. Handles of tools shall be kept tight in the tool, and wooden handles shall be free of splinters or cracks. Wedges, chisels, and similar tools, shall be free of mushroomed heads. Wrenches shall not be used when sprung to the point that slippage occurs.

(c) Electric power operated tools shall either be double-insulated, grounded, or used with ground fault circuit interrupters.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92New. #6684, eff 2-4-98, EXPIRED: 2-4-06New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.35)New. #8796, eff 1-11-07

Lab 1403.26 Hoists.

(a) The employer shall comply with the hoist manufacturer's specifications and limitations as to the proper use and installation of the equipment, whether at a portable or fixed location.

(b) Rated load capacities, recommended operating speeds, and special hazard warnings or instructions shall be visibly marked on cars and platforms.

(c) Hoistway entrances of material hoists shall be protected by full width gates or bars.

(d) Hoistway doors or cages of personnel hoists shall be not less than 6 feet 6 inches high and shall be protected with mechanical locks which cannot be operated from the landing side and shall be accessible only to persons on the car.

(e) Overhead protective coverings shall be provided on the top of the hoist cage or platform.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92New. #6684, eff 2-4-98, EXPIRED: 2-4-06New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.37)New. #8796, eff 1-11-07

Lab 1403.27 Housekeeping.

(a) Form and scrap lumber with protruding nails and all other debris shall be kept clear from all work areas.

- (b) Combustible scrap and debris shall be removed from work areas at least daily.
- (c) Trash shall be disposed of at frequent intervals.
- (d) All places of employment, passageways, storerooms, and service rooms shall be kept clean and in a sanitary condition.
- (e) All floors shall be kept clean, dry, safely maintained and free from trip hazards.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.38)

New. #8796, eff 1-11-07

Lab 1403.28 Hygiene and Sanitation.

- (a) A supply of potable water shall be provided in all places of employment.
- (b) Potable drinking water containers shall be capable of being tightly closed and be equipped with a tap.
- (c) The above shall not apply to mobile crews or normally unattended locations, as long as employees working at these locations have transportation immediately available to nearby locations that provide water and sanitary facilities.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.39)

New. #8796, eff 1-11-07

Lab 1403.29 Jointers.

- (a) Each hand-fed jointer with a horizontal cutting head shall have an automatic guard which shall cover the section of the head on the working side of the fence or cage, and a guard which shall cover the back of the cage or fence.
- (b) A jointer guard shall automatically adjust itself to cover the unused portion of the head, and shall remain in contact with the material at all times.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRES: 10-09-06 (formerly Lab 1403.40)

New. #8796, eff 1-11-07 (formerly and moved by Lab 1403.28)

Lab 1403.30 Ladders.

- (a) Fixed ladders shall comply with the following requirements:

- (1) Rungs shall have a minimum diameter of 3/4 inch, if metal, or 1-1/8 inches, if wood.
- (2) Rungs shall be a minimum of 16 inches in length and be spaced uniformly no more than 12 inches apart.
- (3) Cages, wells, or safety devices, such as fall prevention systems for ladders shall be provided on all ladders more than 20 feet in length.
- (4) Landing platforms shall be provided each 30 feet of travel, where cages are provided. Where no cage

provided, landing platforms shall be provided for every 20 feet of travel.

(5) Tops of cages on fixed ladders shall extend at least 42 inches above top of landing. The bottom of the cage shall be not less than 7 feet or more than 8 feet above the base of the ladder.

(6) Side rails shall extend 3-1/2 feet above the landing.

(b) Portable ladders shall comply with the following requirements:

(1) Stepladders shall be equipped with a metal spreader or locking device of sufficient size and strength to securely hold the front and back sections in the open position.

(2) Ladders shall be inspected prior to use and those which have developed defects shall:

a. Be withdrawn from service for repair or destruction;

b. Be tagged or marked as "Dangerous, Do Not Use."

(3) Ladders that are not self-supporting shall be erected on a sound base at a 4/1 pitch and placed to prevent slipping.

(4) The side rails of a ladder used to gain access to a roof or platform shall extend at least 3 feet above the landing.

(5) Portable metal ladders shall not be used for electrical work or where they might contact electric conductors.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.41)

New. #8796, eff 1-11-07

Lab 1403.31 Lasers.

(a) Only employees who have had training by the employer or equipment manufacturer shall be assigned to install, adjust, and operate laser equipment.

(b) Employees shall wear appropriate eye protection designed to safeguard against potential exposure to laser light greater than 0.005 watts (5 milliwatts).

(c) Beam shutters or caps shall be utilized, or the laser turned off, when laser transmission is not actually required. When the laser is left unattended, such as during lunch hour, overnight, or at change of shifts, the laser shall be turned off.

(d) Employees shall not be exposed to light intensities above the following:

(1) Direct staring - 1 micro-watt per square centimeter;

(2) Incidental observing - 1 milliwatt per square centimeter;

(3) Diffused reflected light - 2-1/2 watts per square centimeter.

(e) Employees shall not be exposed to microwave power densities in excess of 10 milliwatts per square centimeter.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.42)

New. #8796, eff 1-11-07

Lab 1403.32 Lockout.

All stored energy hazards including but not limited to the following shall be released, locked-out, or otherwise rendered non-hazardous prior to commencement of any work which could subject the employee to potential injury:

- (1) hydraulic pressure;
 - (2) pneumatic pressure;
 - (3) steam pressure;
 - (4) vacuum;
 - (5) electricity;
 - (6) mechanical; and
 - (7) gravity.
- (b) Padlocks shall be made available to employees for the purpose of locking-out equipment when required.
- (c) Only the individual who is working on the equipment shall be allowed to remove the lockout device.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.45)

New. #8796, eff 1-11-07

Lab 1403.33 Machine Guarding.

(a) Machine guarding shall be provided to protect employees from hazards such as those created by point of operation, nip points, rotating parts, flying chips and sparks.

(b) Shall comply with the following requirements:

- (1) The guard shall be such that it cannot pose an accident hazard in itself;
- (2) Point of operation guarding devices shall be so designed as to prevent the operator from having any part his body in the danger zone during the operating cycle.

(c) Machines which require point of operation guarding shall include:

- (1) guillotine cutters;
- (2) shears;
- (3) alligator shears;
- (4) power presses;
- (5) milling machines;
- (6) power saws;
- (7) jointers; and
- (8) forming rolls and calendars.

(d) Special supplemental hand tools shall be used for placing and removing materials within the danger zone of the machine.

(e) Guards shall be required within 7 feet of the floor or working platform to protect from the following machinery:

- (1) fan blades;
- (2) belts;
- (3) pulleys;
- (4) sprockets;
- (5) chains;
- (6) flywheels;
- (7) shafting;
- (8) shaft projections;
- (9) gears;
- (10) couplings; and
- (11) rotating or reciprocating parts.

(f) Flywheels protruding through a working floor shall be guarded;

(g) Where both runs of horizontal belts are 7 feet or less from the floor or working surface, the guard shall extend at least 15 inches above the belt.

(h) Safety sleeves shall be required to guard couplings with bolts, nuts or set screws extending beyond the flange.

(i) Belts, pulleys, and shafting located in rooms used exclusively for power transmission apparatus shall not be required to be guarded when the following requirements have been met:

- (1) The basement, tower, or room occupied by transmission equipment is locked against unauthorized entrance; or
- (2) The route followed by the oiler is protected in such a manner as to prevent accidents.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.46)

New. #8796, eff 1-11-07

Lab 1403.34 Machinery in a Fixed Location. Machines designed for a fixed location shall be securely anchored to prevent walking or moving, or designed in such a manner that they do not move in normal operation.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.47)

New. #8796, eff 1-11-07

Lab 1403.35 Mechanical Power Presses.

(a) The employer shall provide and ensure the usage of point-of-operation guards or properly applied and adjusted point-of-operation devices, per the manufacturer's recommendation, to prevent entry of hands or fingers into the point-of-operation by reaching through, over, under and around the guard on every operation performed on a mechanical power

press. This requirement shall not apply when the point-of-operation opening is 1/4 inch or less.

(b) A guard shall be placed over the treadle of foot-operated presses.

(c) Pedal counterweights, if provided on foot-operated presses shall have the path of travel of the weight enclosed.

(d) Machines using full revolution clutches shall incorporate a single stroke mechanism except where automatically fed in continuous operation and where the points of operation are safeguarded by a fixed barrier guard.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.48)

New. #8796, eff 1-11-07

Lab 1403.36 Medical Services. In addition to the medical chest required in RSA 277:6, emergency telephone numbers for ambulance service, hospital, or physician shall be posted throughout the facility.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.49)

New. #8796, eff 1-11-07

Lab 1403.37 Mechanized Equipment.

(a) All construction equipment in use shall be checked at the beginning of each shift to assure that all parts, equipment, and accessories that affect safe operation are in proper operating condition and free from defects. All defects shall be corrected before the vehicle is placed in service.

(b) No employer shall use any motor vehicle, earthmoving, or compacting equipment having an obstructed view to the rear unless:

(1) The vehicle has a reverse signal alarm distinguishable from the surrounding noise level; or

(2) The vehicle is backed up only when an appointed observer signals that it is safe to do so.

(c) Heavy machinery, equipment, or parts thereof which are suspended or held aloft shall be blocked to prevent falling or shifting before employees are permitted to work under or between them.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.50)

New. #8796, eff 1-11-07

Lab 1403.38 Noise Exposure.

(a) Protection against the effects of occupational noise exposure shall be provided when the sound levels exceed those shown in Table 3, Permissible Noise Exposures. Feasible engineering or administrative controls shall be utilized to keep exposure below the allowable limit.

(b) When engineering or administrative controls fail to reduce the noise level to within the levels of Table 3, personal protective equipment shall be provided and used to reduce the noise to an acceptable level.

(c) Exposure to impulsive or impact noise should not exceed 140 dB peak sound pressure level.

TABLE 14.01 - PERMISSIBLE NOISE EXPOSURE

Duration Per Day, Hours	Sound Level
	dBA Slow
	Response
8	90
6	92
4	95
3	97
2	100
1-1/2	102
1	105
1/2	110
1/4 or less	115

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.51)

New. #8796, eff 1-11-07

Lab 1403. 39 Overheads and Gantry Hoists and Cranes.

- (a) All functional operating mechanisms, air and hydraulic systems, chains, rope slings, hooks, and other lifting equipment shall be visually inspected before each use by the operator.
- (b) Complete inspection of the crane shall be performed at one to 12 month intervals.
- (c) The inspection shall include the following:
 - (1) Identifying deformed, cracked, corroded, worn, or loose members or parts; and
 - (2) Ensuring the good working order of the following:
 - a. brake system;
 - b. limit indicators;
 - c. power plant; and
 - d. electrical apparatus.
- (d) Overhead cranes shall have stops at the limit of travel of the wheels.
- (e) The rated load of the crane shall be plainly marked on each side of the crane.
 - (1) If the crane has more than one hoisting unit, each hoist shall have its rated load marked on it or its load block, and
 - (2) The marking shall be clearly legible from the ground or floor.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.21)

New. #8796, eff 1-11-07

Lab 1403.40 Personal Protective Equipment.

(a) The employer shall be responsible for assessing the hazards, and providing and requiring the use of appropriate personal protective equipment where indicated based upon that assessment.

(b) Where employees furnish their own personal protective equipment, the employer shall be responsible to assure its adequacy and to ensure that the equipment is properly maintained and in a sanitary condition.

(c) Employees working over or near water, where the danger of drowning exists, shall be provided with U.S. Coast Guard-approved life jackets or buoyant work vests.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.53)

New. #8796, eff 1-11-07

Lab 1403.41 Portable Abrasive Wheel Machinery.

(a) Abrasive wheels shall be used only on machines provided with safety guards.

(b) The following shall be exempt from the safety guard requirement in (a) above:

(1) Wheels used while within the work being ground; and

(2) Mounted wheels, used in portable operations, 2 inches and smaller in diameter.

(c) A safety guard shall cover the spindle end, nut and flange projections. The safety guard shall be mounted so as to maintain proper alignment with the wheel.

(d) Safety guards used on right angle head or vertical portable grinders shall have a maximum exposure angle of 180 degrees and the guard shall meet the minimum requirements:

(1) The above guard shall be so located so as to be between the operator and the wheel during use.

(2) Adjustment of the guard shall be such that pieces of an accidentally broken wheel shall be deflected away from the operator.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.54)

New. #8796, eff 1-11-07

Lab 1403.42 Portable Pneumatic Powered Tools.

(a) Safety clips or retainers shall be securely installed and maintained on pneumatic impact tools to prevent attachments from being accidentally expelled.

(b) Hose and hose connections used for delivering compressed air shall be designed for the pressure and service to which they are used.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.55)

New. #8796, eff 1-11-07

Lab 1403.43 Powder-Actuated Tools.

(a) Only employees trained by the employer or equipment manufacturer shall be allowed to operate powder-actuated tools.

(b) All powder-actuated tools shall be tested by the employee before each use and all defects discovered before or during use shall be corrected.

(c) Tools shall not be loaded until immediately before use. A loaded tool shall not be left unattended.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.56)

New. #8796, eff 1-11-07

Lab 1403.44 Radiation.

(a) Employers shall provide controls to prevent any employee from being exposed to radiation, either ionizing or electromagnetic, in excess of acceptable limits as established by He-P 4001.

(b) Each radiation area shall be conspicuously posted with visible signs and/or barriers.

(c) Employers shall maintain records of the radiation exposure of all employees who are required to work in these areas.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.58)

New. #8796, eff 1-11-07

Lab 1403.45 Railings.

(a) A standard railing shall consist of top rail, intermediate rail and posts, and shall have a vertical height of 42 inches from upper surface of top rail to floor, or platform.

(b) A railing for open-sided floors, platforms, and runways shall have a toeboard which is a vertical barrier at floor level erected along exposed edges of a floor opening, wall opening, platform, runway, or ramp to prevent falls of materials whenever persons can pass beneath the open side, or where there is equipment with which falling materials could cause a hazard.

(c) Railings shall be of such construction that the complete structure shall be capable of withstanding a load of at least 200 pounds in the vertical or horizontal direction.

(d) This section shall not apply to scaffolding and stairway railings.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.58)

New. #8796, eff 1-11-07

Lab 1403.46 Record Keeping.

(a) An annual log of all workplace injuries and illnesses, for which an employer's first report of injury is submitted to the department of labor, shall be kept at the place of employment and made available to a safety inspector upon request.

(b) Employers having existing records or logs of injuries and illnesses, required by other agencies, may provide them to meet this requirement.

(c) The log shall include, at a minimum, the following information:

- (1) Date of injury;
- (2) Name of employee;
- (3) Occupation of employee;
- (4) Description of the injury or illness;
- (5) Whether lost time was involved; and
- (6) The date employee returned to work.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.60)

New. #8796, eff 1-11-07

Lab 1403.47 Respiratory Protection.

(a) Respirators shall be selected by the employer on the basis of the hazard to which the worker is exposed and shall be provided by the employer as necessary to protect the health of the workers.

(b) Employees who are expected to use respirators shall be fit tested to ensure that an adequate face-to-facepiece seal can be maintained.

(c) Both the supervisors and the workers shall be instructed, by the employer, in the selection, use, and maintenance of respirators.

(d) Respirators shall be cleaned and disinfected, and shall be inspected during cleaning and deteriorated parts shall be replaced.

(e) Respirators for emergency use shall be inspected at least once a month and after each use.

(f) When not in use, respirators shall be stored in a clean and sanitary location.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.61)

New. #8796, eff 1-11-07

Lab 1403.48 Revolving Drums. Revolving drums, barrels, or containers shall be guarded by an interlocked enclosure that shall prevent the drum from revolving unless the guard enclosure is in place.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.62)

New. #8796, eff 1-11-07

Lab 1403.49 Rollover Protective Structures (ROPS). Except for sideboom pipelaying tractors and compactors, rollover, protective structures of substantial strength shall be used with the following types of materials handling equipment:

- (1) All rubber-tired, self-propelled scrapers;
- (2) Rubber-tired front-end loaders;
- (3) Rubber-tired dozers;
- (4) Wheel-type agricultural and industrial tractors;
- (5) Crawler tractors;
- (6) Crawler-type loaders;
- (7) Motor graders, with or without attachments, that are used in construction work; and
- (8) forklifts trucks and powered industrial trucks.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRES: 10-09-06 (formerly Lab 1403.63)

New. #8796, eff 1-11-07

Lab 1403.50 Safety Nets. Where nets are used, operations shall not be undertaken until the net system is installed by a person trained by the employer or equipment manufacturer and the system complies with all industry standards.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.64)

New. #8796, eff 1-11-07

Lab 1403.51 Saws.

(a) Band Saws shall comply with the following requirements:

- (1) All portions of band saw blades shall be enclosed or guarded except for the working portion of the blade between the bottom of the guide rolls and the table; and
- (2) Band saw wheels shall be fully enclosed according to the following requirements:
 - a. The outside periphery of the enclosure shall be solid; and
 - b. The front and back shall be either, solid wire mesh or perforated metal.

(b) Portable Circular Saws shall comply with the following requirements:

- (1) All portable power-driven circular saws having a blade diameter greater than 2 inches shall be equipped with guards above and below the base plate or shoe.
- (2) The lower guards shall cover the saw to the depth of the teeth, except for the minimum area required permit the base plate to be tilted for bevel cuts, and shall automatically return to the covering position when the blade is withdrawn from the work.

a. The above provision shall not apply to circular saws used in the meat industry for meat cutting purposes.

(c) Radial saws shall comply with the following requirements:

- (1) Radial saws shall have an upper guard which completely encloses the upper half of the saw blade.
- (2) The sides of the lower exposed portion of the blade shall be guarded by a device that shall automatically adjust to the thickness of the material and remain in contact with the material being cut.
- (3) Radial saws used for ripping shall be equipped with a device which will prevent material from kicking back toward the operator and shall be properly adjusted.
- (4) An adjustable stop shall be provided to prevent the forward travel of the blade beyond the table, or the position necessary to complete the cut in repetitive operations.
- (5) Radial saws shall be installed so that the cutting head shall return to the starting position when released by the operator.

(d) Swing or Sliding Cut-Off shall comply with the following requirements:

- (1) All swing or sliding cut-off saws shall be provided with a hood that shall completely enclose the upper half of the saw.
- (2) Limit stops shall be provided to prevent swing or sliding type cut-off saws from extending beyond the front or back edges of the table.
- (3) Each swing or sliding cut-off saw shall be provided with an effective device to return the saw automatically to the back of the table when released at any point of its travel.
- (4) Inverted cut-off saws shall be provided with a hood that shall cover the part of the saw that protrudes above the top of the table or material being cut.

(e) Table Saws shall comply with the following requirements:

- (1) Circular table saws shall have a hood over the portion of the saw above the table, so mounted that the hood shall automatically adjust itself to the thickness of and remain in contact with the material being cut.
- (2) Circular table saws shall have a spreader aligned with the blade spaced no more than 1/2 inch behind the largest blade mounted in the saw. The provision of a spreader in connection with grooving, dadoing, rabbeting shall not be required.
- (3) Circular table saws used for ripping shall be equipped with a device which will prevent material from kicking back toward the operator and shall be properly adjusted.
- (4) Feed rolls and blades of self-feed circular saws shall be protected by a hood or guard to prevent the hand of the operator from coming in contact with the in-running rolls at any point.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.65)

New. #8796, eff 1-11-07

Lab 1403.52 Scaffolds. The following requirements shall apply to scaffolds:

- (a) Scaffolds shall be erected on sound, rigid footing capable of carrying the maximum intended load without settling or displacement;
- (b) All planking shall be scaffold grade or equivalent as recognized by approved grading rules for the species of wood used; and

(c) The maximum permissible spans for 2 x 10 or wider planks are shown in Table 4, Planking Material Thickness.

Table Lab 14.02 – Planking Material Thickness

	Full Thickness Undressed Lumber			Nominal Thickness Lumber	
Working load (p.s.f.)	25	50	75	25	50
Permissible Span (ft.)	10	8	6	8	6

(d) The maximum permissible span for 1-1/4 x 9 inch or wider plank of full thickness is 4 feet, with medium loading of 50 p.s.f.;

(e) Scaffold planking shall be overlapped a minimum of 12 inches or secured from movement;

(f) Scaffold planks shall extend over their end supports not less than 6 inches nor more than 12 inches;

(g) Defective parts of all scaffolding and accessories shall immediately be replaced or repaired; and

(h) An access ladder or equivalent safe access shall be provided.

(i) Mobile platforms shall be tightly planked for the full width of the scaffold except for necessary entrance opening. Platforms shall be secured in place.

(j) All employees working on suspension scaffolds shall be protected by a safety life belt attached to a lifeline which shall comply with the following requirements:

(1) The lifeline shall be securely attached to substantial members of the structure, not the scaffold, or securely rigged lines, which shall safely suspend the employee in case of a fall.

(2) In order to keep the lifeline continuously attached, with a minimum of slack, to a fixed structure, the attachment point of the lifeline shall be changed as the work progresses.

(k) Tubular welded frame scaffolds shall be properly braced by cross bracing or diagonal braces, or both, for securing vertical members together laterally.

(1) The cross braces shall be of such length as shall automatically square and align vertical members so that the erected scaffold is always plumb, square, and rigid; and

(2) All brace connections shall be made secure.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.66)

New. #8796, eff 1-11-07 (from Lab 1403.56)

Lab 1403.53 Spray Finishing Operations.

(a) In conventional dry type spray booths, over-spray dry filters or filter rolls shall ensure an average air velocity over the face of the booth of not less than 100 linear feet per minute.

(b) Electrostatic spraying operations may be conducted with an air velocity of not less than 60 linear feet per minute, or more, depending on the volume of the finishing material being applied and its flammability and explosive characteristics.

(c) Visible gauges or an audible alarm or pressure-activated devices shall be installed to indicate or ensure that the required air velocity is maintained.

(d) Filter pads shall be inspected and clogged filter pads discarded and replaced. Filter rolls shall be inspected to ensure proper replacement of filter media.

(e) Spray booths shall be so installed that all portions are readily accessible for cleaning.

(f) A clear space of not less than 3 feet on all sides of a spray booth shall be kept free from storage or combustible construction.

(g) There shall be no open flame or spark producing equipment in any spraying area nor within 20 feet thereof unless separated by a partition capable of stopping vapor travel.

(h) Electrical wiring and equipment not subject to deposits of combustible residues but located in a spraying area shall be of explosion proof type.

(i) The quantity of flammable or combustible liquids kept in the vicinity of spraying operations shall be the minimum required for operations and shall not exceed a supply for one day or one shift.

(j) Whenever flammable or combustible liquids are transferred from one container to another, both containers shall be bonded and grounded to prevent discharge sparks of static electricity.

(k) All spraying areas shall be kept as free from the accumulation of deposits of combustible residues as practicable with cleaning conducted daily if necessary. Scrapers, spuds, or other such tools used for cleaning purposes shall be nonspark material.

(l) Residue scrapings and debris contaminated with residue shall be immediately removed from the premises.

(m) "No Smoking" signs in large letters on contrasting color background shall be conspicuously posted at all spraying areas and paint storage rooms.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.67)

New. #8796, eff 1-11-07 (from Lab 1403.57)

Lab 1403.54 Storage.

(a) All stored materials stacked in tiers shall be stacked, blocked, interlocked, and limited in height so that they are secure against sliding or collapse.

(b) Storage areas shall be kept free from accumulation of materials that constitute hazards from tripping, fire explosion or pest harborage. Vegetation control shall be exercised when necessary.

(c) Where mechanical handling equipment is used, aisles that are not clearly defined, shall be marked with reflective paint or tape; sufficient safe clearance shall be allowed for aisles, at loading docks, through doorways, and whenever turn or passage is made.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.58)

New. #8796, eff 1-11-07 (from Lab 1403.58)

Lab 1403.55 Tanks with Open Surface.

(a) Where ventilation is used to control potential exposure to employees, it shall reduce the concentration of the contaminant to the degree that a hazard to employees does not exist.

(b) Whenever there is a danger of toxic substances being splashed, the employees shall wear either tight-fitting chemical goggles or an effective face shield.

(c) Near each tank containing liquid which might be harmful to the skin if splashed upon the worker's body, there shall be a supply of clean cold water. The water pipe shall be provided with a quick opening valve and at least 48 inches hose not smaller than three-fourths inch. At no time shall water pressure for eyewashes exceed 25 p.s.i. Alternative deluge showers and eye flushes shall be provided.

(d) All employees working in and around open-surface tank operations shall be trained by the employer as to the hazards of their respective jobs, and in the personal protection and first aid procedures applicable to these hazards.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.69)

New. #8796, eff 1-11-07 (from Lab 1403.59)

Lab 1403.56 Tire Cages. A safety tire rack, cage, or equivalent protection shall be provided and used when inflating, mounting, or dismounting tires installed on split rims, or rims equipped with locking rings or similar devices.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.70)

New. #8796, eff 1-11-07 (from Lab 1403.60)

Lab 1403.57 Toxic Substance.

(a) Engineering and administrative controls shall be implemented to protect workers from exposure to hazardous and toxic substances such as radioactive substances or other hazardous substances which are defined as a toxic substance.

(b) When engineering and administrative controls are not feasible to achieve acceptable levels, protective equipment shall be used to keep the exposure of employees below the established limits.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.71)

New. #8796, eff 1-11-07

Lab 1403.58 Traffic Control.

(a) Effective means for control of pedestrian and vehicular traffic shall be instituted on every job site where necessary.

(b) Traffic-control devices shall conform to the applicable federal and state regulations or to applicable sections of the Federal Highway Administration Manual on Uniform Traffic Control Devices - 1988 with revisions.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.73)

New. #8796, eff 1-11-07 (from Lab 1403.61)

Lab 1403.59 Trash. All sweepings, solid or liquid wastes, refuse, and garbage shall be removed in such a manner as to avoid creating a menace to health and as often as necessary to maintain good sanitary conditions.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.74)

New. #8796, eff 1-11-07 (from Lab 1403.62)

Lab 1403.60 Tree Care Operations.

(a) Head protection shall be worn by workers engaged in tree operations. The head protection worn shall contain the manufacturer's certification that it complies with ANSI Z89.1-1981 with revisions. When working in proximity to electrical lines, the head protection worn shall contain the manufacturer's certification that it is a Class B hard hat which complies with ANSI Z89.1-1981 with revisions.

(b) Safetybelts, tree-trimming saddle belts, or a saddle formed by a double bowline on a bight shall be worn to protect workers above ground level.

(c) Saddle belts or safety belts used for climbing operations shall have forged support rings. Snaps used in climbing ropes or in safety straps, for attachment to the forged support ring, shall be of self-closing safety type. Forged support rings shall be designed so that the snaps will not become disengaged, or roll off accidentally.

(d) Climbing ropes shall be used when working aloft in trees. Manila ropes shall have minimum diameter of 1 inch (25 mm) and shall be 3 or 4 strand first-grade manila, with a rated breaking strength of 2385 pounds or equivalent strength and durability. Synthetic rope shall have a maximum elasticity of not more than 7 percent.

(e) Climbing ropes shall not be used to lower limbs or other parts of trees, or to raise or lower equipment.

(f) The employer shall provide, and the employee shall use, chaps specifically designed to protect a moving chain whenever chain saws are used.

(g) All employees shall be instructed in the hazards associated with working in close proximity to overhead power lines.

(h) It shall be the responsibility of a competent person to determine whether tree care operations can be safely performed near energized power lines.

(i) Rescue procedures for employees working above ground shall be established by the employer, and all employees trained accordingly.

(j) Brush chipper access panels for maintenance and adjustment shall be closed and secured prior to operation of brush chippers.

(k) Each rotary drum tree or brush chipper or disk-type tree or brush chipper not equipped with a mechanical in-feed system shall be equipped with an in-feed hopper not less than 85 inches (2.15 m), measured from the blades or knives to ground level over the centerline of the hopper, and shall have sufficient height on its side members so as to prevent personnel from contacting the blades or knives of the machine during normal operations.

(l) Each disk-type tree or brush chipper equipped with a mechanical in-feed system shall have a quick stop or reversing device on the in-feed. The activating lever for the quick stop and reversing device shall be located across the top along each side of, and as close to the feed end of the in-feed hopper as practicable and within easy reach of the operator.

(m) Equipment on which workers stand and spray while the vehicle is in motion shall be equipped with guardrails around the working area.

(n) When using portable powered brush cutting saws no one except the operator shall be within 10 feet (3 m) of the cutting head of the brush saw.

(o) The power unit shall be equipped with a quick shutoff switch readily accessible to the operator.

(p) When operating chain saws the manufacturer's operating and safety instructions shall be followed.

(q) Chain saw used by employees shall be equipped with a properly adjusted inertia chain brake designed to stop the

chain rotation in the event of a saw kickback.

(r) Chain saws weighing more than 15 pounds (6.8 kg) that are used in trees shall be supported by a separate line except when used from an aerial-lift device.

(s) The engine shall be stopped when power saws are being carried. The saw need not be stopped between cuts during consecutive felling, bucking, or climbing or cutting operations on reasonably level ground. The chain shall not be turning and the operator's hand shall be off the throttle lever while operators move between work locations. One-man saws shall be carried by the worker on his/her side with the guide bar of the saw pointed to the rear. A two-man saw shall be carried by 2 workers.

(t) The engine shall be stopped for all cleaning, refueling, adjustments, and repairs to the saw or motor when practical, except where manufacturer's procedures require otherwise.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.75)

New. #8796, eff 1-11-07 (from Lab 1403.63)

Lab 1403.61 Wall Openings. Wall openings, from which there is a drop of more than 6 feet, and the bottom of the opening is less than 3 feet above the working surface, shall be guarded.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRES: 10-09-06 (formerly Lab 1403.77)

New. #8796, eff 1-11-07 (from Lab 1403.64)

Lab 1403.62 Washing Facilities.

(a) Washing facilities shall be provided in every place of employment except for mobile crews or normal unattended work locations where employees have ready access to nearby sanitary facilities, maintained in a sanitary condition.

(b) A cleaning agent and either individual hand towels, sections of cloth or paper, warm air blowers, or clean individual sections of continuous cloth toweling shall be provided at washing facilities.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRES: 10-09-06 (formerly Lab 1403.78)

New. #8796, eff 1-11-07 (from Lab 1403.65)

Lab 1403.63 Welding and Cutting.

(a) Welding equipment shall be chosen for safe application to the work and shall be installed properly. Employees designated to operate welding equipment shall be properly instructed and qualified by the employer or equipment manufacturer to operate it.

(b) Mechanical ventilation shall be provided when welding or cutting in an area with less than 10,000 cubic feet per welder, or where the overhead height is less than 16 feet.

(c) Proper shielding and eye protection to prevent exposure of personnel from welding hazards shall be provided.

(d) When welding in a fixed location the welder shall be enclosed with a booth, or non-combustible screening, with

a finish of low reflectivity with respect to visible and ultraviolet radiation.

(e) Proper precautions for fire protection such as isolating welding and cutting, removing fire hazards from vicinity and providing a fire watch shall be taken in areas where welding or cutting is being done.

(f) When welding operations requiring fluxes, coverings, coatings, or alloys, or involving fluorine compounds, zinc, lead, beryllium, cadmium or mercury produce specific health hazards, a competent person shall evaluate potential exposures and ensure necessary protective measures, such as ventilation and personal protective equipment, are used.

(g) Welding and cutting operations shall be shielded by noncombustible or flameproof shields to protect employees from direct arc rays.

(h) Arc welding and cutting operations shall be shielded by non-combustible or flameproof shields to protect employees from direct arc rays.

(i) When electrode holders are left unattended, the electrodes shall be removed and the holder shall be placed protected so that they cannot make electrical contact with employees or conducting objects.

(j) All arc welding and cutting cables shall be completely insulated and be capable of handling the maximum current requirements for the job. There shall be no repairs or splices within 10 feet of the electrode holder, except where splices are insulated equal to the insulation of the cable. Defective cable shall be repaired or replaced.

(k) Fuel gas and oxygen hose shall be easily distinguishable and shall not be interchangeable. Hoses shall be inspected at the beginning of each shift and shall be repaired or replaced if defective.

(l) Oxygen and fuel gas regulators shall be in proper working order when in use.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.79)

New. #8796, eff 1-11-07 (formerly Lab 1403.66)

Lab 1403.64 Welding in Confined Spaces.

(a) In addition to the requirements in Lab 1403.14 all welding and cutting operations carried on in confined spaces shall be ventilated to prevent the accumulation of toxic substances or possible oxygen deficiency.

(b) In such operations where it is impossible to provide such ventilation, air supplied respirators or hose masks which are labeled to indicate they are approved by (MSHA) Mine Safety and Health Administration for this purpose, shall be used.

(c) In areas immediately hazardous to life, hose masks with blowers or self-contained breathing equipment shall be used. The breathing equipment shall be labeled to indicate it is approved by (MSHA) Mine Safety and Health Administration.

(d) Where welding operations are carried on in confined spaces and where welders and helpers are provided with hose masks, hose masks with blowers or self-contained breathing equipment, a worker shall be stationed on the outside of such confined spaces to ensure the safety of those working within.

(e) Oxygen shall never be used for ventilation.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.80)

New. #8796, eff 1-11-07 (formerly Lab 1403.67)

Lab 1403.65 Wire Ropes, Chains, and Rigging Equipment.

(a) Wire ropes, chains, ropes, and other rigging equipment shall be inspected prior to use and as necessary during use to assure their safety. Defective gear shall be removed from service.

(b) Job or shop hooks and links, or makeshift fasteners, formed from bolts and rods, or other such attachments, shall not be used.

(c) When U-bolts are used for eye splices, the U-bolt shall be applied so that the "U" section is in contact with the dead end of the rope.

(d) When U-bolt wire rope clips are used to form eyes, Table 5, Number and spacing of U-Bolt Wire Rope Clip shall be used to determine the number and spacing of clips:

Table Lab 14.03 – Number and Spacing of U-Bolt Wire Rope Clips
Number of Clips

Improved Plow Steel Rope Diameter Inches	Drop Forged	Other Material	Minimum Spacing (inches)
1/2	3	4	3
5/8	3	4	3-3/4
3/4	4	5	4-1/2
7/8	4	5	4-1/2
1	5	6	6
1-1/8	6	6	6
1-1/4	6	7	7-1/2
1-3/8	7	7	8-1/4
1-1/2	7	8	9

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.81)

New. #8796, eff 1-11-07 (formerly Lab 1403.68)

Lab 1403.66 Woodworking Machinery.

(a) All woodworking machinery such as table saws, swing saws, radial saws, band saws, jointers, tenon machines, boring and mortising machines, shapers, planers, lathes sanders, veneer cutters, shall be effectively guarded to protect the operator and other employees from hazards inherent to their operation.

(b) A power control device shall be provided on each machine to make it possible for the operator to cut off the power to the machine without leaving his or her position at the point of operation.

(c) Power controls and operating controls shall be located within easy reach of the operator while he or she is at his or her regular work location, making it unnecessary to reach over the cutter to make adjustments. This shall not apply to constant pressure controls used only for setup purposes.

(d) Each operating treadle shall be protected against unexpected or accidental tripping.

(e) Disconnect switches shall be capable of being locked or tagged in the off position.

(f) On applications where injury to the operator might result if motors were to restart after a power failure, provision shall be made to prevent machines from automatically restarting upon restoration of power.

Source. #4118 eff 8-22-86, EXPIRED: 8-22-92

New. #6684, eff 2-4-98, EXPIRED: 2-4-06

New. #8606, INTERIM, eff 4-12-06, EXPIRED: 10-09-06 (formerly Lab 1403.82)

New. #8796, eff 1-11-07 (formerly Lab 1403.69)

APPENDIX

Rule	Statute
Lab 1401.01 & 1401.02	RSA 281-A: 64, RSA 273:9, RSA 277:15
Lab 1401.03 to Lab 1403.35	RSA 281-A:64
Lab 1402.01 to 1402.03	RSA 281-A: 64, RSA 273:9, RSA 277:15
Lab 1403.01 to Lab 1403.27	RSA 281-A: 64, RSA 273:9, RSA 277:15
Lab 1403.28	RSA 281-A: 64, RSA 273:9, RSA 277:10; RSA 277:15
Lab 1403.29 to Lab 1403.35	RSA 281-A: 64, RSA 273:9, RSA 277:15
Lab 1403.36	RSA281-A: 64, RSA 277:6, RSA 273:9; RSA 277:15
Lab 1403.37 to Lab 1403.51	RSA 281-A: 64, RSA 273:9, RSA 277:15
Lab 1403.52	RSA 281-A: 64, RSA 277:2, RSA 277:3 & RSA 277:4, RSA 277:15
Lab 1403.53 to Lab 1403.61	RSA 281-A: 64, RSA 273:9, RSA 277:15
Lab 1403.62	RSA 281-A: 64, RSA 277:10, RSA 273:9, RSA 277:15
Lab 1403.63 to Lab 1403.66	RSA 281-A: 64, RSA 273:9, RSA 277:15