CAL/OSHA MODEL INJURY AND ILLNESS PREVENTION PROGRAM FOR HIGH-HAZARD INDUSTRIES

This model IIPP was produced by Cal/OSHA. This and other model programs can be found at: http://www.dir.ca.gov/DOSH/. This model can also be found at dewalt.com/guides.

MODEL INJURY AND ILLNESS PREVENTION PROGRAM FOR HIGH-HAZARD EMPLOYERS

Responsibility

The Injury and Illness Prevention Program (IIP Program) administrator, Program Administrator

has the authority and responsibility for implementing the provisions of this program for Establishment Name

All managers and supervisors are responsible for implementing and maintaining the IIP Program in their work areas and for answering worker questions about the IIP Program. A copy of this IIP Program is available from each manager and supervisor.

Compliance

Management is responsible for ensuring that all safety and health policies and procedures are clearly communicated and understood by all employees. Managers and supervisors are expected to enforce the rules fairly and uniformly. All employees are responsible for using safe work practices, for following all directives, policies, and procedures, and for assisting in maintaining a safe work environment.

Our system of ensuring that all workers comply with the rules and maintain a safe work environment include:

- Informing workers of the provisions of our IIP Program;
- Evaluating the safety performance of all workers;
• Recognizing employees who perform safe and healthful work practices;
• Providing training to workers whose safety performance is deficient;
• Disciplining workers for failure to comply with safe and healthful work practices; and
• The following practices: _______________________________________________________________________

____________________________________________________________________________________________

**Communication**

We recognize that open, two-way communication between management and staff on health and safety issues is essential to an injury-free, productive workplace. The following system of communication is designed to facilitate a continuous flow of safety and health information between management and staff in a form that is readily understandable and consists of one or more of the following checked items:

• New worker orientation including a discussion of safety and health policies and procedures.
• Review of our IIP Program.
• Workplace safety and health training programs.
• Regularly scheduled safety meetings.
• Effective communication of safety and health concerns between workers and supervisors, including translation where appropriate.
• Posted or distributed safety information.
• A system for workers to anonymously inform management about workplace hazards.
• Our establishment has less than ten employees and communicates with and instructs employees orally about general safe work practices and with respect to hazards unique to each employee’s job assignment.
• A labor/management safety and health committee that meets regularly, prepares written records of the safety and health committees meetings, reviews results of the periodic scheduled inspections, reviews investigations of accidents and exposures and makes suggestions to management for the prevention of future incidents, reviews investigations of alleged hazardous conditions, and submits recommendations to assist in the evaluation of employee safety suggestions.
• Other: __________________________________________________________________________________

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**Hazard Assessment**

Periodic inspections to identify and evaluate workplace hazards shall be performed by the following competent observer(s) in the following areas of our workplace:

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Periodic inspections are performed according to the following schedule:

- Frequency (daily, weekly, monthly, etc.);
- When we initially established our IIP Program;
- When new substances, processes, procedures, or equipment that present potential new hazards are introduced into our workplace;
- When new, previously unidentified hazards are recognized;
- When occupational injuries and illnesses occur;
- When we hire and/or reassign permanent or intermittent workers to processes, operations, or tasks for which a hazard evaluation has not been previously conducted; and
- Whenever workplace conditions warrant an inspection.

Periodic inspections consist of identification and evaluation of workplace hazards utilizing applicable sections of the attached Hazard Assessment Checklist and any other effective methods to identify and evaluate workplace hazards.

**Accident/Exposure Investigations**

Procedures for investigating workplace accidents and hazardous substance exposures include:

- Visiting the accident scene as soon as possible;
- Interviewing injured workers and witnesses;
- Examining the workplace for factors associated with the accident/exposure;
- Determining the cause of the accident/exposure;
- Taking corrective action to prevent the accident/exposure from reoccurring; and
- Recording the findings and corrective actions taken.

**Hazard Correction**

Unsafe or unhealthy work conditions, practices, or procedures shall be corrected in a timely manner based on the severity of the hazards. Hazards shall be corrected according to the following procedures:

- When observed or discovered;
- When an imminent hazard exists which cannot be immediately abated without endangering employee(s) and/or property, we will remove all exposed workers from the area except those necessary to correct the existing condition. Workers necessary to correct the hazardous condition shall be provided with the necessary protection; and
- All such actions taken and dates they are completed shall be documented on the appropriate forms.

**Training and Instruction**

All workers, including managers and supervisors, shall have training and instruction on general and job-specific safety and health practices. Training and instruction shall be provided as follows:

- When the IIP Program is first established;
- To all new workers, except for construction workers who are provided training through a Cal/OSHA-approved construction industry occupational safety and health training program;
• To all workers given new job assignments for which training has not been previously provided;
• Whenever new substances, processes, procedures, or equipment are introduced to the workplace and represent a new hazard;
• Whenever the employer is made aware of a new or previously unrecognized hazard;
• To supervisors to familiarize them with the safety and health hazards to which workers under their immediate direction and control may be exposed; and
• To all workers with respect to hazards specific to each employee’s job assignment.

Workplace safety and health practices for all industries include, but are not limited to, the following:

• Explanation of the employer’s IIP Program, emergency action plan, and fire prevention plan and measures for reporting any unsafe conditions, work practices, injuries, and when additional instruction is needed.
• Use of appropriate clothing, including gloves, footwear, and personal protective equipment.
• Information about chemical hazards to which employees could be exposed and other hazard communication program information.
• Availability of toilet, handwashing, and drinking water facilities.
• Provisions for medical services and first aid including emergency procedures.

In addition, we provide specific instructions to all workers regarding hazards unique to their job assignment, to the extent that such information was not already covered in other training.

Recordkeeping

We have checked one of the following categories as our recordkeeping policy.

• Category 1. Our establishment is on a designated high-hazard industry list. We have taken the following steps to implement and maintain our IIP Program:
  1. Records of hazard assessment inspections, including the person or persons conducting the inspection, the unsafe conditions and work practices that have been identified, and the action taken to correct the identified unsafe conditions and work practices, are recorded on a hazard assessment and correction form; and
  2. Documentation of safety and health training for each worker, including the worker’s name or other identifier, training dates, type(s) of training, and training providers, are recorded on a worker training and instruction form. We also include the records relating to worker training provided by a construction industry occupational safety and health program approved by Cal/OSHA.

Inspection records and training documentation will be maintained according to the following checked schedule:

  ○ For one year, except for training records of employees who have worked for less than one year which are provided to the worker upon termination of employment; or
  ○ Since we have less than ten workers, including managers and supervisors, we maintain inspection records only until the hazard is corrected and only maintain a log of instructions to workers with respect to worker job assignments when they are first hired or assigned new duties.

• Category 2. We are a local governmental entity (any county, city, or district, and any public or quasi-public corporation or public agency therein) and we are not required to keep written records of the steps taken to implement and maintain our IIP Program.
List of Training Subjects

We train our workers about the following checked training subjects:

- The employer’s Code of Safe Practices.
- Confined spaces.
- Safe practices for operating any agricultural equipment.
- Good housekeeping, fire prevention, safe practices for operating any construction equipment.
- Safe procedures for cleaning, repairing, servicing, and adjusting equipment and machinery.
- Safe access to working areas.
- Protection from falls.
- Electrical hazards, including working around high-voltage lines.
- Crane operations.
- Trenching and excavation work.
- Proper use of powered tools.
- Guarding of belts and pulleys, gears and sprockets, and conveyor nip points.
- Guarding of machine, machine parts, and prime movers.
- Lock-out/tag-out procedures.
- Materials handling.
- Chainsaw and other power tool operation.
- Tree falling/bucking procedures and precautions, including procedures for recognizing and working with hazard trees, snags, lodged trees, and unsafe weather conditions.
- Yarding operations, including skidding, running lines, unstable logs, rigging, and communication.
- Landing and loading areas, including release of rigging, landing layout, moving vehicles and equipment, and log truck locating, loading, and wrapping.
- Fall protection from elevated locations.
- Use of elevated platforms, including condors and scissor lifts.
- Safe use of explosives.
- Driver safety.
- Slips, falls, and back injuries.
- Ergonomic hazards, including proper lifting techniques and working on ladders or in a stooped posture for prolonged periods at one time.
- Personal protective equipment.
- Respiratory equipment.
- Hazardous chemical exposures.
- Hazard communication.
- Physical hazards, such as heat/cold stress, noise, and ionizing and nonionizing radiation.
- Laboratory safety.
- Bloodborne pathogens and other biological hazards.
- Other job-specific hazards, such as
Hazard Assessment Checklist

General Work Environment

- Are all worksites clean and orderly?
- Are work surfaces kept dry or appropriate means taken to ensure the surfaces are slip-resistant?
- Are all spilled materials or liquids cleaned up immediately?
- Is combustible scrap, debris, and waste stored safely and removed from the worksite promptly?
- Is accumulated combustible dust routinely removed from elevated surfaces, including the overhead structure of buildings?
- Is combustible dust cleaned up with a vacuum system to prevent the dust going into suspension?
- Is metallic or conductive dust prevented from entering or accumulation on or around electrical enclosures or equipment?
- Are covered metal waste cans used for oily and paint-soaked waste?
- Are all oil- and gas-fired devices equipped with flame failure controls that will prevent flow of fuel if pilots or main burners are not working?
- Are paint spray booths, dip tanks, and the like cleaned regularly?
- Are the minimum number of toilets and washing facilities provided?
- Are all toilets and washing facilities clean and sanitary?
- Are all work areas adequately illuminated?
- Are pits and floor openings covered or otherwise guarded?

Personal Protective Equipment and Clothing

- Are protective goggles or face shields provided and worn where there is any danger of flying particles or corrosive materials?
- Are approved safety glasses required to be worn at all times in areas where there is a risk of eye injuries such as punctures, abrasions, contusions, or burns?
- Are employees who need corrective lenses (glasses or contacts lenses) in working environments with harmful exposures required to wear only approved safety glasses, protective goggles, or other medically approved precautionary procedures?
- Are protective gloves, aprons, shields, or other means provided against cuts, corrosive liquids, and chemicals?
- Are hard hats provided and worn where danger of falling objects exists?
- Are hard hats inspected periodically for damage to the shell and suspension system?
- Is appropriate foot protection required where there is the risk of foot injuries from hot, corrosive, poisonous substances, falling objects, or crushing or penetrating actions?
- Are approved respirators provided for regular or emergency use where needed?
- Is all protective equipment maintained in a sanitary condition and ready for use?
- Do you have eyewash facilities and a quick-drench shower within the work area where employees are exposed to injurious corrosive materials?
- Where special equipment is needed for electrical workers, is it available?
• When lunches are eaten on the premises, are they eaten in areas where there is no exposure to toxic materials or other health hazards?
• Is protection against the effects of occupational noise exposure provided when sound levels exceed those of the Cal/OSHA noise standard?

**Walkways**
• Are aisles and passageways kept clear?
• Are aisles and walkways marked as appropriate?
• Are wet surfaces covered with nonslip materials?
• Are holes in the floor, sidewalk, or other walking surface repaired properly, covered, or otherwise made safe?
• Is there safe clearance for walking in aisles where motorized or mechanical handling equipment is operating?
• Are spilled materials cleaned up immediately?
• Are materials or equipment stored in such a way that sharp projectiles will not interfere with the walkway?
• Are changes of direction or elevations readily identifiable?
• Are aisles or walkways that pass near moving or operating machinery, welding operations, or similar operations arranged so employees will not be subjected to potential hazards?
• Is adequate headroom provided for the entire length of any aisle or walkway?
• Are standard guardrails provided wherever aisle or walkway surfaces are elevated more than 30 inches above any adjacent floor or the ground?
• Are bridges provided over conveyors and similar hazards?

**Floor and Wall Openings**
• Are floor openings guarded by a cover, guardrail, or equivalent on all sides (except at entrance to stairways or ladders)?
• Are toeboards installed around the edges of a permanent floor opening (where persons may pass below the opening)?
• Are skylight screens of such construction and mounting that they will withstand a load of at least 200 pounds?
• Is the glass in windows, doors, and glass walls that are subject to human impact of sufficient thickness and type for the condition of use?
• Are grates or similar type covers over floor openings such as floor drains of such design that foot traffic or rolling equipment will not be affected by the grate spacing?
• Are unused portions of service pits and pits not actually in use either covered or protected by guardrails or equivalent?
• Are manhole covers, trench covers, and similar covers, plus their supports, designed to carry a truck rear axle load of at least 20,000 pounds when located in roadways and subject to vehicle traffic?
• Are floor or wall openings in fire-resistive construction provided with doors or covers compatible with the fire rating of the structure and provided with a self-closing feature when appropriate?
**Stairs and Stairways**
- Are standard stair rails or handrails on all stairways having four or more risers?
- Are all stairways at least 22” wide?
- Do stairs have at least a 6’6” overhead clearance?
- Do stairs angle no more than 50 and no less than 30 degrees?
- Are stairs of hollow-pan type treads and landings filled to noising level with solid material?
- Are step risers on stairs uniform from top to bottom, with no riser spacing greater than 7½”?
- Are steps on stairs and stairways designed or provided with a surface that renders them slip-resistant?
- Are stairway handrails located between 30 and 34” above the leading edge of stair treads?
- Do stairway handrails have a least 1½” of clearance between the handrails and the wall or surface they are mounted on?
- Are stairway handrails capable of withstanding a load of 200 pounds, applied in any direction?
- Where stairs or stairways exit directly into any area where vehicles may be operated, are adequate barriers and warnings provided to prevent employees stepping into the path of traffic?
- Do stairway landings have a dimension measured in the direction of travel at least equal to width of the stairway?
- Is the vertical distance between stairway landings limited to 12’ or less?

**Elevated Surfaces**
- Are signs posted, when appropriate, showing the elevated surface load capacity?
- Are surfaces elevated more than 30” above the floor or ground provided with standard guardrails?
- Are all elevated surfaces (beneath which people or machinery could be exposed to falling objects) provided with standard 4” toeboards?
- Is a permanent means of access and egress provided to elevated storage and work surfaces?
- Is required headroom provided where necessary?
- Is material on elevated surfaces piled, stacked, or racked in a manner to prevent it from tipping, falling, collapsing, rolling, or spreading?
- Are dock boards or bridge plates used when transferring materials between docks and trucks or rail cars?

**Exiting or Egress**
- Are all exits marked with an exit sign and illuminated by a reliable light source?
- Are the directions to exits, when not immediately apparent, marked with visible signs?
- Are doors, passageways, or stairways that are neither exits nor access to exits and which could be mistaken for exits appropriately marked “NOT AN EXIT,” “TO BASEMENT,” “STOREROOM,” and the like?
- Are exit signs provided with the word “EXIT” in lettering at least 5” high and the stroke of the lettering at least ½” wide?
- Are exit doors side-hinged?
- Are all exits kept free of obstructions?
- Are at least two means of egress provided from elevated platforms, pits, or rooms where the absence of a second exit would increase the risk of injury from hot, poisonous, corrosive, suffocating, flammable, or explosive substances?
- Are there sufficient exits to permit prompt escape in case of emergency?
- Are special precautions taken to protect employees during construction and repair operations?
• Is the number of exits from each floor of a building, and the number of exits from the building itself, appropriate for the building occupancy load?

• Are exit stairways that are required to be separated from other parts of a building enclosed by at least 2-hour fire-resistive construction in buildings more than four stories in height and not less than 1-hour fire-resistive construction elsewhere?

• When ramps are used as part of required exiting from a building, is the ramp slope limited to 1’ vertical and 12’ horizontal?

• Where exiting will be through frameless glass doors, glass exit doors, storm doors, and such, are the doors fully tempered and do they meet the safety requirements for human impact?

**Exit Doors**

• Are doors that are required to serve as exits designed and constructed so that the way of exit travel is obvious and direct?

• Are windows that could be mistaken for exit doors made inaccessible by means of barriers or railings?

• Are exit doors openable from the direction of exit travel without the use of a key or any special knowledge or effort when the building is occupied?

• Is a revolving, sliding, or overhead door prohibited from serving as a required exit door?

• Where panic hardware is installed on a required exit door, will it allow the door to open by applying a force of 15 pounds or less in the direction of the exit traffic?

• Are doors on cold storage rooms provided with an inside release mechanism that will release the latch and open the door even if it's padlocked or otherwise locked on the outside?

• Where exit doors open directly onto any street, alley, or other area where vehicles may be operated, are adequate barriers and warnings provided to prevent employees stepping into the path of traffic?

• Are doors that swing in both directions and are located between rooms where there is frequent traffic provided with viewing panels in each door?

**Portable Ladders**

• Are all ladders maintained in good condition, joints between steps and side rails tight, all hardware and fittings securely attached, and moveable parts operating freely without binding or undue play?

• Are non-slip safety feet provided on each ladder?

• Are non-slip safety feet provided on each metal or rung ladder?

• Are ladder rungs and steps free of grease and oil?

• Is it prohibited to place a ladder in front of doors opening toward the ladder except when the door is blocked open, locked, or guarded?

• Is it prohibited to place ladders on boxes, barrels, or other unstable bases to obtain additional height?

• Are employees instructed to face the ladder when ascending or descending?

• Are employees prohibited from using ladders that are broken; have missing steps, rungs, or cleats; or have broken side rails or other faulty equipment?

• Are employees instructed not to use the top two steps of ordinary stepladders as a step?

• When portable rung ladders are used to gain access to elevated platforms, roofs, and the like, does the ladder always extend at least 3’ above the elevated surface?

• Is it required that when portable rung or cleat-type ladders are used the base is so placed that slipping will not occur or it is lashed or otherwise held in place?
• Are portable metal ladders legibly marked with signs reading “CAUTION Do Not Use Around Electrical Equipment” or equivalent wording?
• Are employees prohibited from using ladders as guys, braces, skids, gin poles, or for other than their intended purposes?
• Are employees instructed to only adjust extension ladders while standing at a base (not while standing on the ladder or from a position above the ladder)?
• Are metal ladders inspected for damage?
• Are the rungs of ladders uniformly spaced at 12”, center to center?

**Hand Tools and Equipment**

• Are all tools and equipment (both company- and employee-owned) used by employees at their workplace in good condition?
• Are hand tools such as chisels and punches that develop mushroomed heads during use reconditioned or replaced as necessary?
• Are broken or fractured handles on hammers, axes, and similar equipment replaced promptly?
• Are worn or bent wrenches replaced regularly?
• Are appropriate handles used on files and similar tools?
• Are employees made aware of the hazards caused by faulty or improperly used hand tools?
• Are appropriate safety glasses, face shields, and similar equipment used while using hand tools or equipment that might produce flying materials or be subject to breakage?
• Are jacks checked periodically to ensure they are in good operating condition?
• Are tool handles wedged tightly in the head of all tools?
• Are tool cutting edges kept sharp so the tool will move smoothly without binding or skipping?
• Are tools stored in a dry, secure location where they won’t be tampered with?
• Is eye and face protection used when driving hardened or tempered spuds or nails?

**Portable (Power Operated) Tools and Equipment**

• Are grinders, saws, and similar equipment provided with appropriate safety guards?
• Are power tools used with the correct shield, guard, or attachment recommended by the manufacturer?
• Are portable circular saws equipped with guards above and below the base shoe?
• Are circular saw guards checked to ensure they are not wedged up, thus leaving the lower portion of the blade unguarded?
• Are rotating or moving parts of equipment guarded to prevent physical contact?
• Are all cord-connected, electrically operated tools and equipment effectively grounded or of the approved double-insulated type?
• Are effective guards in place over belts, pulleys, chains, and sprockets on equipment such as concrete mixers, air compressors, and the like?
• Are portable fans provided with full guards or screens having openings \( \frac{1}{2} \)” or less?
• Is hoisting equipment available and used for lifting heavy objects, and are hoist ratings and characteristics appropriate for the task?
• Are ground-fault circuit interrupters provided on all temporary electrical 15- and 20-ampere circuits used during periods of construction?
• Are pneumatic and hydraulic hoses on power-operated tools checked regularly for deterioration or damage?

**Abrasive Wheel Equipment Grinders**
- Is the work rest used and kept adjusted to within ¼" of the wheel?
- Is the adjustable tongue on the top side of the grinder used and kept adjusted to within ¼” of the wheel?
- Do side guards cover the spindle, nut, and flange and 75% of the wheel diameter?
- Are bench and pedestal grinders permanently mounted?
- Are goggles or face shields always worn when grinding?
- Is the maximum RPM rating of each abrasive wheel compatible with the RPM rating of the grinder motor?
- Are fixed or permanently mounted grinders connected to their electrical supply system with metallic conduit or other permanent wiring method?
- Does each grinder have an individual on and off control switch?
- Is each electrically operated grinder effectively grounded?
- Before new abrasive wheels are mounted, are they visually inspected and ring tested?
- Are dust collectors and powered exhausts provided on grinders used in operations that produce large amounts of dust?
- Are splashguards mounted on grinders that use coolant to prevent the coolant reaching employees?
- Is cleanliness maintained around grinder?

**Powder-Actuated Tools**
- Are employees who operate powder-actuated tools trained in their use and carry a valid operator’s card?
- Do the powder-actuated tools being used have written approval of the Division of Occupational Safety and Health?
- Is each powder-actuated tool stored in its own locked container when not being used?
- Is a sign at least 7” by 10” with bold type reading “POWDER-ACTUATED TOOL IN USE” conspicuously posted when the tool is being used?
- Are powder-actuated tools left unloaded until they are actually ready to be used?
- Are powder-actuated tools inspected for obstructions or defects each day before use?
- Do powder-actuated tool operators have and use appropriate personal protective equipment such as hard hats, safety goggles, safety shoes, and ear protectors?

**Machine Guarding**
- Is there a training program to instruct employees on safe methods of machine operation?
- Is there adequate supervision to ensure that employees are following safe machine operating procedures?
- Is there a regular program of safety inspection of machinery and equipment?
- Is all machinery and equipment kept clean and properly maintained?
- Is sufficient clearance provided around and between machines to allow for safe operations, setup and servicing, material handling, and waste removal?
- Is equipment and machinery securely placed and anchored when necessary to prevent tipping or other movement that could result in personal injury?
- Is there a power shutoff switch within reach of the operator’s position at each machine?
• Can electric power to each machine be locked out for maintenance, repair, or security?
• Are the non-current-carrying metal parts of electrically operated machines bonded and grounded?
• Are foot-operated switches guarded or arranged to prevent accidental actuation by personnel or falling objects?
• Are manually operated valves and switches controlling the operation of equipment and machines clearly identified and readily accessible?
• Are all emergency stop buttons colored red?
• Are all pulleys and belts that are within 7’ of the floor or working level properly guarded?
• Are all moving chains and gears properly guarded?
• Are splashguards mounted on machines that use coolant to prevent the coolant from reaching employees?
• Are methods provided to protect the operator and other employees in the machine area from hazards created at the point of operation, ingoing nip points, rotating parts, flying chips, and sparks?
• Are machinery guards secure and so arranged that they do not offer a hazard in their use?
• If special hand tools are used for placing and removing material, do they protect the operator’s hands?
• Are revolving drums, barrels, and containers required to be guarded by an enclosure that is interlocked with the drive mechanism so that revolution cannot occur unless the guard enclosure is in place so guarded?
• Do arbors and mandrels have firm and secure bearings and are they free from play?
• Are provisions made to prevent machines from automatically starting when power is restored after a power failure or shutdown?
• Are machines constructed so as to be free from excessive vibration when the largest-size tool is mounted and run at full speed?
• If machinery is cleaned with compressed air, is air pressure controlled and personal protective equipment or other safeguards used to protect operators and other workers from eye and body injury?
• Are fan blades protected with a guard having openings no larger than ½” when operating within 7’ of the floor?
• Are saws used for ripping equipped with anti-kickback devices and spreaders?
• Are radial arm saws so arranged that the cutting head will gently return to the back of the table when released?

**Lockout Blockout Procedures**

• Is all machinery or equipment capable of movement required to be de-energized or disengaged and blocked or locked out during cleaning, servicing, adjusting, or setting-up operations whenever required?
• Is the locking out of control circuits in lieu of locking out main power disconnects prohibited?
• Are all equipment control valve handles provided with a means for locking out?
• Does the lockout procedure require that stored energy (i.e., mechanical, hydraulic, air) be released or blocked before equipment is locked out for repairs?
• Are appropriate employees provided with individually keyed personal safety locks?
• Are employees required to keep personal control of their key(s) while they have safety locks in use?
• Is it required that employees check the safety of the lockout by attempting a start-up after making sure no one is exposed?
• Where the power disconnecting means for equipment does not also disconnect the electrical control circuit:
○ Are the appropriate electrical enclosures identified?
○ Are means provided to ensure the control circuit can also be disconnected and locked out?

**Welding, Cutting, and Brazing**

- Are only authorized and trained personnel permitted to use welding, cutting, or brazing equipment?
- Do all operators have a copy of the appropriate operating instructions and are they directed to follow them?
- Are compressed gas cylinders regularly examined for obvious signs of defects, deep rusting, or leakage?
- Is care used in handling and storage of cylinders, safety valves, relief valves, and the like to prevent damage?
- Are precautions taken to prevent the mixture of air or oxygen with flammable gases except at a burner or in a standard torch?
- Is only approved apparatus (torches, regulators, pressure-reducing valves, acetylene generators, manifolds) used?
- Are cylinders kept away from sources of heat?
- Is it prohibited to use cylinders as rollers or supports?
- Are empty cylinders appropriately marked, their valves closed, and valve-protection caps on?
- Are signs reading: “DANGER NO-SMOKING, MATCHES, OR OPEN LIGHTS” or the equivalent posted?
- Are cylinders, cylinder valves, couplings, regulators, hoses, and apparatus kept free of oily or greasy substances?
- Is care taken not to drop or strike cylinders?
- Unless secured on special trucks, are regulators removed and valve-protection caps put in place before moving cylinders?
- Do cylinders without fixed hand wheels have keys, handles, or non-adjustable wrenches on stem valves when in service?
- Are liquefied gases stored and shipped valve-end-up with valve covers in place?
- Are employees instructed to never crack a fuel-gas cylinder valve near sources of ignition?
- Before a regulator is removed, is the valve closed and gas released from the regulator?
- Is red used to identify the acetylene (and other fuel-gas) hose, green for oxygen hose, and black for inert gas and air hose?
- Are pressure-reducing regulators used only for the gas and pressures for which they are intended?
- Is the open-circuit (no-load) voltage of arc welding and cutting machines as low as possible and not in excess of the recommended limits?
- Under wet conditions, are automatic controls for reducing no-load voltage used?
- Are grounding of the machine frame and safety ground connections of portable machines checked periodically?
- Are electrodes removed from the holders when not in use?
- Is it required that electric power to the welder be shut off when no one is in attendance?
- Is suitable fire extinguishing equipment available for immediate use?
- Is the welder forbidden to coil or loop welding electrode cable around his body?
- Are wet machines thoroughly dried and tested before being used?
- Are work and electrode lead cables frequently inspected for wear and damage and replaced when needed?
• Do means for connecting cable lengths have adequate insulation?
• When the object to be welded cannot be moved and fire hazards cannot be removed, are shields used to confine heat, sparks, and slag?
• Are firewatchers assigned when welding or cutting is performed in locations where a serious fire might develop?
• Are combustible floors kept wet, covered by damp sand, or protected by fire-resistant shields?
• When floors are wet down, are personnel protected from possible electrical shock?
• When welding is done on metal walls, are precautions taken to protect combustibles on the other side?
• Before hot work is begun, are used drums, barrels, tanks, and other containers so thoroughly cleaned that no substances remain that could explode, ignite, or produce toxic vapors?
• Is it required that eye protection helmets, hand shields, and goggles meet appropriate standards?
• Are employees exposed to the hazards created by welding, cutting, or bracing operations protected with personal protective equipment and clothing?
• Is a check made for adequate ventilation in and where welding or cutting is performed?
• When working in confined places, are environmental monitoring tests taken and means provided for quick removal of welders in case of an emergency?

**Compressors and Compressed Air**

- Are compressors equipped with pressure-relief valves and pressure gauges?
- Are compressor air intakes installed and equipped to ensure that only clean, uncontaminated air enters the compressor?
- Are air filters installed on the compressor intake?
- Are compressors operated and lubricated in accordance with the manufacturer’s recommendations?
- Are safety devices on compressed air systems checked frequently?
- Before any repair work is done on the pressure system of a compressor, is the pressure bled off and the system locked out?
- Are signs posted to warn of the automatic starting feature of compressors?
- Is the belt drive system totally enclosed to provide protection for the front, back, top, and sides?
- Is it strictly prohibited to direct compressed air toward a person?
- Are employees prohibited from using highly compressed air for cleaning purposes?
- If compressed air is used for cleaning off clothing, is the pressure reduced to less than 10 psi?
- When using compressed air for cleaning, do employees use personal protective equipment?
- Are safety chains or other suitable locking devices used at couplings of high-pressure hose lines where a connection failure would create a hazard?
- Before compressed air is used to empty containers of liquid, is the safe working pressure of the container checked?
- When compressed air is used with abrasive blast cleaning equipment, is the operating valve a type that must be held open manually?
- When compressed air is used to inflate auto tires, is a clip-on chuck and an inline regulator preset to 40 psi required?
- Is it prohibited to use compressed air to clean up or move combustible dust if such action could cause the dust to be suspended in the air and cause a fire or explosion hazard?
**Compressed Air Receivers**

- Is every receiver equipped with a pressure gauge and with one or more automatic, spring-loaded safety valves?
- Is the total relieving capacity of the safety valve capable of preventing pressure in the receiver from exceeding the maximum allowable working pressure of the receiver by more than 10%?
- Is every air receiver provided with a drainpipe and valve at the lowest point for the removal of accumulated oil and water?
- Are compressed air receivers periodically drained of moisture and oil?
- Are all safety valves tested frequently and at regular intervals to determine whether they are in good operating condition?
- Is there a current operating permit issued by the Division of Occupational Safety and Health?
- Is the inlet of air receivers and piping systems kept free of accumulated oil and carbonaceous materials?

**Compressed Gas and Cylinders**

- Are cylinders with a water weight capacity over 30 pounds equipped with means for connecting a valve protector device or with a collar or recess to protect the valve?
- Are cylinders legibly marked to clearly identify the gas contained?
- Are compressed gas cylinders stored in areas that are protected from external heat sources such as flame impingement, intense radiant heat, electric arcs, or high-temperature lines?
- Are cylinders located or stored in areas where they will not be damaged by passing or falling objects or subject to tampering by unauthorized persons?
- Are cylinders stored or transported in a manner to prevent them from creating a hazard by tipping, falling, or rolling?
- Are cylinders containing liquefied fuel gas stored or transported in a position so that the safety-relief device is always in direct contact with the vapor space in the cylinder?
- Are valve protectors always placed on cylinders when the cylinders are not in use or connected for use?
- Are all valves closed off before a cylinder is moved, when the cylinder is empty, and at the completion of each job?
- Are low-pressure fuel-gas cylinders checked periodically for corrosion, general distortion, cracks, or any other defect that might indicate a weakness or render it unfit for service?
- Does the periodic check of low-pressure fuel-gas cylinders include a close inspection of the cylinders’ bottom?

**Hoist and Auxiliary Equipment**

- Is each overhead electric hoist equipped with a limit device to stop the hook travel at its highest and lowest point of safe travel?
- Will each hoist automatically stop and hold any load up to 125% of its rated load if its actuating force is removed?
- Is the rated load of each hoist legibly marked and visible to the operator?
- Are stops provided at the safe limits of travel for a trolley hoist?
- Are the controls of hoists plainly marked to indicate the direction of travel or motion?
- Is each cage-controlled hoist equipped with an effective warning device?
- Are close-fitting guards or other suitable devices installed on hoists to ensure hoist ropes will be maintained in the sheave grooves?
• Are all hoist chains or ropes of sufficient length to handle the full range of movement for the application while still maintaining two full wraps on the drum at all times?
• Are nip points or contact points between hoist ropes and sheaves that are permanently located within 7’ of the floor, ground, or working platform guarded?
• Is it prohibited to use chains or rope slings that are kinked or twisted?
• Is it prohibited to use the hoist rope or chain wrapped around the load as a substitute for a sling?
• Is the operator instructed to avoid carrying loads over people?
• Are only employees who have been trained in the proper use of hoists allowed to operate them?

**Industrial Trucks—Forklifts**

• Are only trained personnel allowed to operate industrial trucks?
• Is substantial overhead protective equipment provided on high-lift rider equipment?
• Are the required lift truck operating rules posted and enforced?
• Is directional lighting provided on each industrial truck that operates in an area with less than 2 foot-candles per square foot of general lighting?
• Does each industrial truck have a warning horn, whistle, gong, or other device that can be clearly heard above the normal noise in the areas where operated?
• Are the brakes on each industrial truck capable of bringing the vehicle to a complete and safe stop when fully loaded?
• Will the industrial truck’s parking brake effectively prevent the vehicle from moving when unattended?
• Are industrial trucks operating in areas where flammable gases or vapors or combustible dust or ignitable fibers may be present in the atmosphere approved for such locations?
• Are motorized hand and hand/rider trucks so designed that the brakes are applied and power to the drive motor shuts off when the operator releases his/her grip on the device that controls the travel?
• Are industrial trucks with internal combustion engines operated in buildings or enclosed areas carefully checked to ensure such operations do not cause harmful concentration of dangerous gases or fumes?

**Spraying Operations**

• Is adequate ventilation assured before spray operations are started?
• Is mechanical ventilation provided when a spraying operation is done in enclosed areas?
• When mechanical ventilation is provided during spraying operations, is it so arranged that it will not circulate the contaminated air?
• Is the spray area free of hot surfaces?
• Is the spray area at least 20’ from flames, sparks, operating electrical motors, and other ignition sources?
• Are portable lamps used to illuminate spray areas suitable for use in a hazardous location?
• Is approved respiratory equipment provided and used when appropriate during spraying operations?
• Do solvents used for cleaning have a flash point of 100°F or more?
• Are fire control sprinkler heads kept clean?
• Are “NO SMOKING” signs posted in spray areas, paint rooms, paint booths, and paint storage areas?
• Is the spray area kept clean of combustible residue?
• Are spray booths constructed of metal, masonry, or other substantial noncombustible material?
• Are spray booth floors and baffles noncombustible and easily cleaned?
• Is infrared drying apparatus kept out of the spray area during spraying operations?
• Is the spray booth completely ventilated before using the drying apparatus?
• Is the electric drying apparatus properly grounded?
• Are lighting fixtures for spray booths located outside of the booth and the interior lighted through sealed clear panels?
• Are the electric motors for exhaust fans placed outside booths or ducts?
• Are belts and pulleys inside the booth fully enclosed?
• Do ducts have access doors to allow cleaning?
• Do all drying spaces have adequate ventilation?

Entering Confined Spaces
• Are confined spaces thoroughly emptied of any corrosive or hazardous substances, such as acids or caustics, before entry?
• Before entry, are all lines to a confined space containing inert, toxic, flammable, or corrosive materials valved off and blanked or disconnected and separated?
• Is it required that all impellers, agitators, or other moving equipment inside confined spaces be locked out if they present a hazard?
• Is either natural or mechanical ventilation provided prior to confined-space entry?
• Before entry, are appropriate atmospheric tests performed to check for oxygen deficiency, toxic substances, and explosive concentrations in the confined space?
• Is adequate illumination provided for the work to be performed in the confined space?
• Is the atmosphere inside the confined space frequently tested or continuously monitored during conduct of the work?
• Is there an assigned safety standby employee outside of the confined space whose sole responsibility is to watch the work in progress, sound an alarm if necessary, and render assistance?
• Are the standby employee or other employees prohibited from entering the confined space without lifelines and respiratory equipment if there is any questions as to the cause of an emergency?
• In addition to the standby employee, is there at least one other trained rescuer in the vicinity?
• Are all rescuers appropriately trained and using approved, recently inspected equipment?
• Does all rescue equipment allow for lifting employees vertically from a top opening?
• Are personnel trained in first aid and CPR immediately available?
• Is there an effective communication system in place whenever respiratory equipment is used and the employee in the confined space is out of sight of the standby person?
• Is approved respiratory equipment required if the atmosphere inside the confined space cannot be made acceptable?
• Is all portable electrical equipment used inside confined spaces either grounded and insulated or equipped with groundfault protection?
• Before gas welding or burning is started in a confined space, are hoses checked for leaks, compressed gas bottles forbidden inside of the confined space, torches lighted only outside of the confined area, and the confined area tested for an explosive atmosphere each time before a lighted torch is to be taken into the confined space?
• If employees will be using oxygen-consuming equipment such as salamanders, torches, or furnaces in a confined space, is sufficient air provided to ensure combustion without reducing the oxygen concentration of the atmosphere below 19.5% by volume?
Whenever combustion-type equipment is used in a confined space, are provisions made to ensure the exhaust gases are vented outside of the enclosure?

Is each confined space checked for decaying vegetation or animal matter, which may produce methane?

Is the confined space checked for possible industrial waste, which could contain toxic properties?

If the confined space is below the ground and near areas where motor vehicles will be operating, is it possible for vehicle exhaust or carbon monoxide to enter the space?

Environmental Controls

Are all work areas properly illuminated?

Are employees instructed in proper first aid and other emergency procedures?

Are hazardous substances identified that may cause harm by inhalation, ingestion, skin absorption, or contact?

Are employees aware of the hazards involved with the various chemicals they may be exposed to in their work environment, such as ammonia, chlorine, epoxys, and caustics?

Is employee exposure to chemicals in the workplace kept within acceptable levels?

Can a less harmful method or product be used?

Is the work area’s ventilation system appropriate for the work being performed?

Are spray painting operations done in spray rooms or booths equipped with an appropriate exhaust system?

Is employee exposure to welding fumes controlled by ventilation, use of respirators, exposure time, or other means?

Are welders and other workers nearby provided with flash shields during welding operations?

If forklifts and other vehicles are used in buildings or other enclosed areas, are the carbon monoxide levels kept below maximum acceptable concentrations?

Has there been a determination that noise levels in the facilities are within acceptable levels?

Are steps being taken to use engineering controls to reduce excessive noise levels?

Are proper precautions being taken when handling asbestos and other fibrous materials?

Are caution labels and signs used to warn of asbestos?

Are wet methods used, when practicable, to prevent the emission of airborne asbestos fibers, silica dust, and similar hazardous materials?

Is vacuuming with appropriate equipment used whenever possible rather than blowing or sweeping dust?

Are grinders, saws, and other machines that produce respirable dusts vented to an industrial collector or central exhaust system?

Are all local exhaust ventilation systems designed and operating properly, such as airflow and volume necessary for the application? Are the ducts free of obstructions or the belts slipping?

Is personal protective equipment provided, used, and maintained wherever required?

Are there written standard operating procedures for the selection and use of respirators where needed?

Are restrooms and washrooms kept clean and sanitary?

Is all water provided for drinking, washing, and cooking potable?

Are all outlets for water not suitable for drinking clearly identified?

Are employees’ physical capacities assessed before being assigned to jobs requiring heavy work?

Are employees instructed in the proper manner of lifting heavy objects?
• Where heat is a problem, have all fixed work areas been provided with spot cooling or air-conditioning?
• Are employees screened before assignment to areas of high heat to determine if their health condition might make them more susceptible to having an adverse reaction?
• Are employees working on streets and roadways where they are exposed to the hazards of traffic required to wear a bright-colored (traffic orange) warning vest?
• Are exhaust stacks and air intakes located so that contaminated air will not be recirculated within a building or other enclosed area?
• Is equipment producing ultraviolet radiation properly shielded?

**Flammable and Combustible Materials**
• Are combustible scrap, debris, and waste materials (e.g., oily rags) stored in covered metal receptacles and removed from the worksite promptly?
• Is proper storage practiced to minimize the risk of fire, including spontaneous combustion?
• Are approved containers and tanks used for the storage and handling of flammable and combustible liquids?
• Are all connections on drums and combustible liquid piping, vapor, and liquid tight?
• Are all flammable liquids kept in closed containers when not in use (e.g., parts cleaning tanks, pans)?
• Are bulk drums of flammable liquids grounded and bonded to containers during dispensing?
• Do storage rooms for flammable and combustible liquids have explosion-proof lights?
• Do storage rooms for flammable and combustible liquids have mechanical or gravity ventilation?
• Is liquefied petroleum gas stored, handled, and used in accordance with safe practices and standards?
• Are liquefied petroleum storage tanks guarded to prevent damage from vehicles?
• Are all solvent wastes and flammable liquids kept in fire-resistant covered containers until they are removed from the worksite?
• Is vacuuming used whenever possible rather than blowing or sweeping combustible dust?
• Are fire separators placed between containers of combustibles or flammables, when stacked one upon another, to ensure their support and stability?
• Are fuel-gas cylinders and oxygen cylinders separated by distance, fire-resistant barriers, or other means while in storage?
• Are fire extinguishers selected and provided for the types of materials in areas where they are to be used?
  - Class A: Ordinary combustible material fires.
  - Class B: Flammable liquid, gas, or grease fires.
  - Class C: Energized-electrical equipment fires.
• If a Halon 1301 fire extinguisher is used, can employees evacuate within the specified time for that extinguisher?
• Are appropriate fire extinguishers mounted within 75’ of outside areas containing flammable liquids and within 10’ of any inside storage area for such materials?
• Is the transfer/withdrawal of flammable or combustible liquids performed by trained personnel?
• Are fire extinguishers mounted so that employees do not have to travel more than 75’ for a class A fire or 50’ for a class B fire?
• Are employees trained in the use of fire extinguishers?
• Are extinguishers free from obstructions or blockage?
• Are all extinguishers serviced, maintained, and tagged at intervals not to exceed 1 year?
• Are all extinguishers fully charged and in their designated places?
• Is a record maintained of required monthly checks of extinguishers?
• Where sprinkler systems are permanently installed, are the nozzle heads directed or arranged so that water will not be sprayed into operating electrical switchboards and equipment?
• Are “NO SMOKING” signs posted where appropriate in areas where flammable or combustible materials are used or stored?
• Are “NO SMOKING” signs posted on liquefied petroleum gas tanks?
• Are “NO SMOKING” rules enforced in areas involving storage and use of flammable materials?
• Are safety cans used for dispensing flammable or combustible liquids at a point of use?
• Are all spills of flammable or combustible liquids cleaned up promptly?
• Are storage tanks adequately vented to prevent the development of excessive vacuum or pressure as a result of filling, emptying, or atmospheric temperature changes?
• Are storage tanks equipped with emergency venting that will relieve excessive internal pressure caused by fire exposure?
• Are spare portable or butane tanks, which are used by industrial trucks, stored in accordance with regulations?

**Fire Protection**

• Do you have a fire prevention plan?
• Does your plan describe the type of fire protection equipment and/or systems?
• Have you established practices and procedures to control potential fire hazards and ignition sources?
• Are employees aware of the fire hazards of the material and processes to which they are exposed?
• Is your local fire department well acquainted with your facilities, location, and specific hazards?
• If you have a fire alarm system, is it tested at least annually?
• If you have a fire alarm system, is it certified as required?
• If you have interior standpipes and valves, are they inspected regularly?
• If you have outside private fire hydrants, are they flushed at least once a year and on a routine preventive maintenance schedule?
• Are fire doors and shutters in good operating condition?
• Are fire doors and shutters unobstructed and protected against obstructions, including their counterweights?
• Are fire door and shutter fusible links in place?
• Are automatic sprinkler system water control valves and air and water pressures checked weekly/periodically as required?
• Is maintenance of automatic sprinkler system assigned to responsible persons or to a sprinkler contractor?
• Are sprinkler heads protected by metal guards when exposed to physical damage?
• Is proper clearance maintained below sprinkler heads?
• Are portable fire extinguishers provided in adequate numbers and types?
• Are fire extinguishers mounted in readily accessible locations?
• Are fire extinguishers recharged regularly and noted on the inspection tag?
• Are employees periodically instructed in the use of extinguishers and fire protection procedures?
Hazardous Chemical Exposures

- Are employees trained in the safe handling practices for hazardous chemicals such as acids, caustics, and the like?
- Are employees aware of the potential hazards involving various chemicals stored or used in the workplace—such as acids, bases, caustics, epoxys, and phenols?
- Is employee exposure to chemicals kept within acceptable levels?
- Are eyewash fountains and safety showers provided in areas where corrosive chemicals are handled?
- Are all containers, such as vats and storage tanks, labeled as to their contents, e.g., “CAUSTICS”?
- Are all employees required to use personal protective clothing and equipment when handling chemicals (i.e., gloves, eye protection, and respirators)?
- Are flammable or toxic chemicals kept in closed containers when not in use?
- Are chemical piping systems clearly marked as to their content?
- Where corrosive liquids are frequently handled in open containers or drawn from storage vessels or pipelines, are adequate means readily available for neutralizing or disposing of spills or overflows properly and safely?
- Have standard operating procedures been established and are they being followed when cleaning up chemical spills?
- Where needed for emergency use, are respirators stored in a convenient, clean, and sanitary location?
- Are respirators intended for emergency use adequate for the various uses for which they may be needed?
- Are employees prohibited from eating in areas where hazardous chemicals are present?
- Is personal protective equipment provided, used, and maintained whenever necessary?
- Are there written standard operating procedures for the selection and use of respirators where needed?
- If you have a respirator protection program, are your employees instructed on the correct usage and limitations of the respirators?
- Are the respirators NIOSH-approved for this particular application?
- Are they regularly inspected and cleaned, sanitized, and maintained?
- If hazardous substances are used in your processes, do you have a medical or biological monitoring system in operation?
- Are you familiar with the Threshold Limit Values or Permissible Exposure Limits of airborne contaminants and physical agents used in your workplace?
- Have control procedures been instituted for hazardous materials, where appropriate, such as respirators, ventilation systems, handling practices, and the like?
- Whenever possible, are hazardous substances handled in properly designed and exhausted booths or similar locations?
- Do you use general dilution or local exhaust ventilation systems to control dusts, vapors, gases, fumes, smoke, solvents, or mists that may be generated in your workplace?
- Is ventilation equipment provided for removal of contaminants from such operations as production grinding, buffing, spray painting, and/or vapor decreasing, and is it operating properly?
- Do employees complain about dizziness, headaches, nausea, irritation, or other factors of discomfort when they use solvents or other chemicals?
- Is there a dermatitis problem—do employees complain about skin dryness, irritation, or sensitization?
• Have you considered the use of an industrial hygienist or environmental health specialist to evaluate your operation?
• If internal combustion engines are used, is carbon monoxide kept within acceptable levels?
• Is vacuuming used, rather than blowing or sweeping whenever possible for dust cleanup?
• Are materials that give off toxic asphyxiant, suffocating, or anesthetic fumes stored in remote or isolated locations when not in use?

Hazardous Substances Communication
• Is there a list of hazardous substances used in your workplace?
• Is there a written hazard communication program dealing with Material Safety Data Sheets (MSDS) labeling and employee training?
• Who is responsible for MSDSs, container labeling, and employee training?
• Is each container for a hazardous substance (e.g., vats, bottles, storage tanks) labeled with product identity and a hazard warning (communication of the specific health hazards and physical hazards)?
• Is there a Material Safety Data Sheet readily available for each hazardous substance used?
• How will you inform other employers whose employees share the same work area where the hazardous substances are used?
• Is there an employee training program for hazardous substances?
• Does this program include:
  ◦ An explanation of what an MSDS is and how to use and obtain one?
  ◦ MSDS contents for each hazardous substance or class of substances?
  ◦ Explanation of “Right to Know”?
  ◦ Identification of where employees can see the employer’s written hazard communication program and where hazardous substances are present in their work area?
  ◦ The physical and health hazards of substances in the work area, how to detect their presence, and specific protective measures to be used?
  ◦ Details of the hazard communication program, including how to use the labeling system and MSDSs?
  ◦ How employees will be informed of hazards in nonroutine tasks and hazards of unlabeled pipes?

Electrical
• Are your workplace electricians familiar with the Cal/OSHA Electrical Safety Orders?
• Do you specify compliance with Cal/OSHA for all contract electrical work?
• Are all employees required to report as soon as practicable any obvious hazard to life or property observed in connection with electrical equipment or lines?
• Are employees instructed to make preliminary inspections and/or appropriate tests to determine what conditions exist before starting work on electrical equipment or lines?
• When electrical equipment or lines are to be serviced, maintained, or adjusted, are necessary switches opened, locked out, and tagged whenever possible?
• Are portable electrical tools and equipment grounded or of the double-insulated type?
• Are electrical appliances such as vacuum cleaners, polishers, and vending machines grounded?
• Do extension cords being used have a grounding conductor?
• Are multiple plug adapters prohibited?
• Are groundfault circuit interrupters installed on each temporary 15- or 20-ampere, 120-volt AC circuit at locations where construction, demolition, modifications, alterations, or excavations are being performed?
• Are all temporary circuits protected by suitable disconnecting switches or plug connectors at the junction with permanent wiring?
• Are exposed wiring and cords with frayed or deteriorated insulation repaired or replaced promptly?
• Are flexible cords and cables free of splices or taps?
• Are clamps or other securing means provided on flexible cords or cables at plugs, receptacles, tools, and equipment, and is the cord jacket securely held in place?
• Are all cord, cable, and raceway connections intact and secure?
• In wet or damp locations, are electrical tools and equipment appropriate for the use or location or otherwise protected?
• Is the location of electrical power lines and cables (overhead, underground, under-floor, other side of walls) determined before digging, drilling, or similar work is begun?
• Are metal measuring tapes, ropes, handlines, or similar devices with metallic thread woven into the fabric prohibited where they could come in contact with energized parts of equipment or circuit conductors?
• Is the use of metal ladders prohibited in areas where the ladder or the person using the ladder could come in contact with energized parts of equipment, fixtures, or circuit conductors?
• Are all disconnecting switches and circuit breakers labeled to indicate their use or equipment served?
• Are disconnecting means always opened before fuses are replaced?
• Do all interior wiring systems include provisions for grounding metal parts of electrical raceways, equipment, and enclosures?
• Are all electrical raceways and enclosures securely fastened in place?
• Are all energized parts of electrical circuits and equipment guarded against accidental contact by approved cabinets or enclosures?
• Is sufficient access and working space provided and maintained about all electrical equipment to permit ready and safe operations and maintenance?
• Are all unused openings (including conduit knockouts) in electrical enclosures and fittings closed with appropriate covers, plugs, or plates?
• Are electrical enclosures such as switches, receptacles, junction boxes, etc., provided with tight-fitting covers or plates?
• Are disconnecting switches for electrical motors in excess of 2 horsepower capable of opening the circuit when the motor is in a stalled condition without exploding? (Switches must be horsepower-rated equal to or in excess of the motor hp rating).
• Is low-voltage protection provided in the control device of motors driving machines or equipment that could cause probable injury from inadvertent starting?
• Is each motor disconnecting switch or circuit breaker located within sight of the motor control device?
• Is each motor located within sight of its controller or the controller disconnecting means capable of being locked in the open position, or is a separate disconnecting means installed in the circuit within sight of the motor?
• Is the controller for each motor in excess of 2 horsepower rated in horsepower equal to or in excess of the rating of the motor it serves?
• Are employees who regularly work on or around energized electrical equipment or lines instructed in cardiopulmonary resuscitation (CPR) methods?
• Are employees prohibited from working alone on energized lines or equipment over 600 volts?

**Noise**
• Are there areas in the workplace where continuous noise levels exceed 85 dBA? (To determine maximum allowable levels for intermittent or impact noise, see Title 8, Section 5097.)
• Are noise levels being measured using a sound-level meter or an octave band analyzer and are records being kept?
• Have you tried isolating noisy machinery from the rest of your operation?
• Have engineering controls been used to reduce excessive noise levels?
• Where engineering controls are determined not feasible, are administrative controls (i.e., worker rotation) being used to minimize individual employee exposure to noise?
• Is there an ongoing preventive health program to educate employees on safe levels of noise and exposure, effects of noise on their health, and use of personal protection?
• Is the training repeated annually for employees exposed to continuous noise above 85 dBA?
• Have work areas where noise levels make voice communication between employees difficult been identified and posted?
• Is approved hearing protective equipment (noise attenuating devices) available to every employee working in areas where continuous noise levels exceed 85 dBA?
• If you use ear protectors, are employees properly fitted and instructed in their use and care?
• Are employees exposed to continuous noise above 85 dBA given periodic audiometric testing to ensure that you have an effective hearing protection system?

**Fueling**
• Is it prohibited to fuel an internal combustion engine with a flammable liquid while the engine is running?
• Are fueling operations done in such a manner that likelihood of spillage will be minimal?
• When spillage occurs during fueling operations, is the spilled fuel cleaned up completely or evaporated or other measures taken to control vapors before restarting the engine?
• Are fuel tank caps replaced and secured before starting the engine?
• In fueling operations, is there always metal contact between the container and fuel tank?
• Are fueling hoses of a type designed to handle the specific type of fuel?
• Is it prohibited to handle or transfer gasoline in open containers?
• Are open lights, open flames, or sparking or arcing equipment prohibited near fueling or fuel transfer operations?
• Is smoking prohibited in the vicinity of fueling operations?
• Are fueling operations prohibited in building or other enclosed areas that are not specifically ventilated for this purpose?
• Where fueling or transfer of fuel is done through a gravity flow system, are the nozzles of the self-closing type?

**Identification of Piping Systems**
• When nonpotable water is piped through a facility, are outlets or taps posted to alert employees that it is unsafe and not to be used for drinking, washing, or other personal use?
• When hazardous substances are transported through aboveground piping, is each pipeline identified at points where confusion could introduce hazards to employees?
• When pipelines are identified by color painting, are all visible parts of the line so identified?
• When pipelines are identified by color-painted bands or tapes, are the bands or tapes located at reasonable intervals and at each outlet, valve, or connection?
• When pipelines are identified by color, is the color code posted at all locations where confusion could introduce hazards to employees?
• When the contents of pipelines are identified by name or name abbreviation, is the information readily visible on the pipe near each valve or outlet?
• When pipelines carrying hazardous substances are identified by tags, are the tags constructed of durable materials, the message carried clearly and permanently distinguishable, and are tags installed at each valve or outlet?
• When pipelines are heated by electricity, steam, or other external source, are suitable warning signs or tags placed at unions, valves, or other serviceable parts of the system?

Materials Handling

• Is there safe clearance for equipment through aisles and doorways?
• Are aisleways designated, permanently marked, and kept clear to allow unhindered passage?
• Are motorized vehicles and mechanized equipment inspected daily or prior to use?
• Are vehicles shut off and brakes set prior to loading or unloading?
• Are containers or combustibles or flammables, when stacked while being moved, always separated by dunnage sufficient to provide stability?
• Are dock boards (bridge plates) used when loading or unloading operations are taking place between vehicles and docks?
• Are trucks and trailers secured from movement during loading and unloading operations?
• Are dock plates and loading ramps constructed and maintained with sufficient strength to support imposed loading?
• Are hand trucks maintained in safe operating condition?
• Are chutes equipped with sideboards of sufficient height to prevent the materials being handled from falling off?
• Are chutes and gravity roller sections firmly placed or secured to prevent displacement?
• At the delivery end of rollers or chutes, are provisions made to brake the movement of the handled materials?
• Are pallets usually inspected before being loaded or moved?
• Are hooks with safety latches or other arrangements used when hoisting materials so that slings or load attachments won’t accidentally slip off the hoist hooks?
• Are securing chains, ropes, chockers, or slings adequate for the job to be performed?
• When hoisting material or equipment, are provisions made to ensure no one will be passing under the suspended loads?
• Are Material Safety Data Sheets available to employees handling hazardous substances?

Transporting Employees and Materials

• Do employees who operate vehicles on public thoroughfares have valid operator’s licenses?
• When seven or more employees are regularly transported in a van, bus, or truck, is the operator’s license appropriate for the class of vehicle being driven?
• Is each van, bus, or truck used regularly to transport employees equipped with an adequate number of seats?
• When employees are transported by truck, are there provisions to prevent their falling from the vehicle?
• Are vehicles used to transport employees equipped with lamps, brakes, horns, mirrors, windshields, and turn signals in good repair?
• Are transport vehicles provided with handrails, steps, stirrups, or similar devices so placed and arranged that employees can safely mount or dismount?
• Are employee transport vehicles equipped at all times with at least two reflective-type flares?
• Is a fully charged fire extinguisher, in good condition, with at least a 4 B:C rating maintained in each employee transport vehicle?
• When cutting tools with sharp edges are carried in passenger compartments of employee transport vehicles, are they placed in closed boxes or containers that are secured in place?
• Are employees prohibited from riding on top of any load that can shift, topple, or otherwise become unstable?

**Control of Harmful Substances by Ventilation**

• Is the volume and velocity of air in each exhaust system sufficient to gather the dusts, fumes, mists, vapors, or gases to be controlled and to convey them to a suitable point of disposal?
• Are exhaust inlets, ducts, and plenums designed, constructed, and supported to prevent collapse or failure of any part of the system?
• Are clean-out ports or doors provided at intervals not to exceed 12’ in all horizontal runs of exhaust ducts?
• Where two or more different types of operations are being controlled through the same exhaust system, will the combination of substances being controlled constitute a fire, explosion, or chemical reaction hazard in the duct?
• Is adequate makeup air provided to areas where exhaust systems are operating?
• Is the intake for makeup air located so that only clean, fresh air that is free of contaminates will enter the work environment?
• Where two or more ventilation systems are serving a work area, is their operation such that one will not offset the functions of the other?

**Sanitizing Equipment and Clothing**

• Is personal protective clothing or equipment that employees are required to wear or use of a type capable of being easily cleaned and disinfected?
• Are employees prohibited from interchanging personal protective clothing or equipment unless it has been properly cleaned?
• Are machines and equipment that process, handle, or apply materials which could be injurious to employees cleaned and/or decontaminated before being overhauled or placed in storage?
• Are employees prohibited from smoking or eating in any area where contaminates are present that could be injurious if ingested?
• When employees are required to change from street clothing into protective clothing, is a clean change-room with separate storage facility for street and protective clothing provided?
• Are employees required to shower and wash their hair as soon as possible after a known contact has occurred with a carcinogen?
• When equipment, materials, or other items are taken into or removed from a carcinogen-regulated area, is it done in a manner that will not contaminate nonregulated areas or the external environment?

**Tire Inflation**

• Where tires are mounted and/or inflated on drop center wheels, is a safe-practice procedure posted and enforced?

• Where tires are mounted and/or inflated on wheels with split rims and/or retainer rings, is a safe-practice procedure posted and enforced?

• Does each tire inflation hose have a clip-on chuck with at least 24" of hose between the chuck and an in-line hand valve and gauge?

• Does the tire inflation control valve automatically shut off the airflow when the valve is released?

• Is a tire restraining device such as a cage, rack, or other effective means used while inflating tires mounted on split rims or rims using retainer rings?

• Are employees strictly forbidden from taking a position directly over or in front of a tire while it’s being inflated?

**Emergency Action Plan**

• Are you required to have an emergency action plan?

• Does the emergency action plan comply with requirements of T8CCR 3220(a)?

• Have emergency escape procedures and routes been developed and communicated to all employers?

• Do employees who remain to operate critical plant operations before they evacuate know the proper procedures?

• Is the employee alarm system that provides a warning for emergency action recognizable and perceptible above ambient conditions?

• Are alarm systems properly maintained and tested regularly?

• Is the emergency action plan reviewed and revised periodically?

• Do employees know their responsibilities:
  ○ For reporting emergencies?
  ○ During an emergency?
  ○ For conducting rescue and medical duties?

**Infection Control**

• Are employees potentially exposed to infectious agents in body fluids?

• Have occasions of potential occupational exposure been identified and documented?

• Has a training and information program been provided for employees exposed to or potentially exposed to blood and/or body fluids?

• Have infection control procedures been instituted where appropriate, such as ventilation, universal precautions, workplace practices, and personal protective equipment?

• Are employees aware of specific workplace practices to follow when appropriate (e.g., hand washing, handling sharp instruments, handling of laundry, disposal of contaminated materials, reusable equipment)?

• Is personal protective equipment provided to employees and in all appropriate locations?

• Is the necessary equipment (e.g., mouthpieces, resuscitation bags, and other ventilation devices) provided for administering mouth-to-mouth resuscitation on potentially infected patients?
• Are facilities/equipment to comply with workplace practices available, such as hand-washing sinks, biohazard tags and labels, needle containers, detergents/disinfectants to clean up spills?
• Are all equipment and environmental and working surfaces cleaned and disinfected after contact with blood or potentially infectious materials?
• Is infectious waste placed in closable, leakproof containers, bags, or puncture-resistant holders with proper labels?
• Has medical surveillance, including HBV evaluation, antibody testing, and vaccination, been made available to potentially exposed employees?
• Training on universal precautions?
• Training on personal protective equipment?
• Training on workplace practices, which should include blood drawing, room cleaning, laundry handling, clean up of blood spills?
• Training on needlestick exposure/management?
• Hepatitis B vaccinations?

Ergonomics
• Can the work be performed without eyestrain or glare to the employees?
• Does the task require prolonged raising of the arms?
• Do the neck and shoulders have to be stooped to view the task?
• Are there pressure points on any parts of the body (wrists, forearms, back of thighs)?
• Can the work be done using the larger muscles of the body?
• Can the work be done without twisting or overly bending the lower back?
• Are there sufficient rest breaks, in addition to the regular rest breaks, to relieve stress from repetitive-motion tasks?
• Are tools, instruments, and machinery shaped, positioned, and handled so that tasks can be performed comfortably?
• Are all pieces of furniture adjusted, positioned, and arranged to minimize strain on all parts of the body?

Ventilation for Indoor Air Quality
• Does your HVAC system provide at least the quantity of outdoor air required by the State Building Standards Code, Title 24, Part 2 at the time the building was constructed?
• Is the HVAC system inspected at least annually and problems corrected?
• Are inspection records retained for at least 5 years?

Crane Checklist
• Are the cranes visually inspected for defective components prior to the beginning of any work shift?
• Are all electrically operated cranes effectively grounded?
• Has a crane preventive maintenance program been established?
• Is the load chart clearly visible to the operator?
• Are operating controls clearly identified?
• Is a fire extinguisher provided at the operator's station?
• Is the rated capacity visibly marked on each crane?
• Is an audible warning device mounted on each crane?
- Is sufficient illumination provided for the operator to perform the work safely?
- Are cranes of such design that the boom could fall over backward equipped with boomstops?
- Does each crane have a certificate indicating that required testing and examinations have been performed?
- Are crane inspection and maintenance records maintained and available for inspection?

**Hazard Assessment and Correction Record**

- Date of Inspection: Person Conducting Inspection:

- Unsafe Condition or Work Practice:

- Corrective Action Taken:

- Date of Inspection: Person Conducting Inspection:

- Unsafe Condition or Work Practice:

- Corrective Action Taken:

- Date of Inspection:

- Person Conducting Inspection:

- Unsafe Condition or Work Practice:

- Corrective Action Taken:

**Accident/Exposure Investigation Report**

- Date and Time of Accident:

- Location:

- Accident Description:

- Employees Involved:

- Preventive Action Recommendations:
• Corrective Actions Taken:

• Manager Responsible: Date Completed:

### Worker Training and Instruction Record

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<thead>
<tr>
<th>Employee Name</th>
<th>Training Dates</th>
<th>Type of Training</th>
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