

MOSH

CONSTRUCTION CHECKLIST FOR SELF-INSPECTION

To Employers & Workers:

The rate of injury for workers in the construction industry is approximately 60 percent higher than the overall average for all workers. Recognition of hazards and their elimination is essential to prevention of job-related injuries.

Listed on the following pages are a series of questions that persons working in construction should answer during a self inspection. The checklist has been designed to increase the knowledge and awareness of employees and employers.

A general checklist for self-inspection for all industries is available and includes safety and health questions on machines and equipment, electrical wiring, fire protection, environment and housekeeping, etc.

For assistance or advice, On-Site Consultation Services are available to employers. Please call (410) 527-4472 for this free service.

This publication is not intended to be legal interpretation of the provisions of "MOSH" Law or standards or to place any additional requirements on employers or employees.

Concrete

	YES	NEEDS ACTION
1. Is formwork and shoring adequate to support all intended loads during concrete placement?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are protruding rebar covered or bent over where work must be performed overhead?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Do employees wear gloves and eye protection during stripping operations?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Are nails removed or bent over stripped forms?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Are clear pathways maintained through stripping areas?.....	<input type="checkbox"/>	<input type="checkbox"/>



Cranes

	YES	NEEDS ACTION
1. Are cranes and derricks restricted from operating within 20 feet of any electrical power line?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are rated capacities, operating speed, and instructions posted and visible to the operator?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Does the operator understand and use the load chart?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the operator able to determine the angle and length of the crane boom at all times?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the crane machinery and other rigging equipment inspected daily prior to use to make sure that it is in good condition?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Are accessible areas within the swing radius barricaded?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Are tag lines being used to prevent dangerous swing or spin of materials when raised or lowered by crane or derrick?.....	<input type="checkbox"/>	<input type="checkbox"/>
8. Is a fire extinguisher of at least 5BC rating provided on the crane?.....	<input type="checkbox"/>	<input type="checkbox"/>
9. Are illustrations of hand signals to crane and derrick operators posted on the job site?.....	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the rigger/signalman use correct signals for the crane operator to follow?.....	<input type="checkbox"/>	<input type="checkbox"/>
11. Are crane outriggers used as required?.....	<input type="checkbox"/>	<input type="checkbox"/>
12. Do crane platforms and walkways have anti-skid surfaces?.....	<input type="checkbox"/>	<input type="checkbox"/>
13. Is broken, worn, or damaged wire rope removed from service?.....	<input type="checkbox"/>	<input type="checkbox"/>
14. Are exhaust pipes guarded or insulated where employees might contact them?.....	<input type="checkbox"/>	<input type="checkbox"/>
15. Are guardrails, hand holds, and steps provided for safe and easy access to all areas of the crane?.....	<input type="checkbox"/>	<input type="checkbox"/>
16. Are trolley and two block limits on hammerhead tower cranes working?.....	<input type="checkbox"/>	<input type="checkbox"/>
17. Have tower bolts been properly torqued?.....	<input type="checkbox"/>	<input type="checkbox"/>
18. Have overload limits been tested and correctly set?.....	<input type="checkbox"/>	<input type="checkbox"/>
19. Do personnel platforms suspended from crane hooks conform to OSHA/MOSH requirements?.....	<input type="checkbox"/>	<input type="checkbox"/>
20. Does the crane operation comply with manufacturer's specifications?.....	<input type="checkbox"/>	<input type="checkbox"/>

Flagpersons

YES NEEDS
ACTION

- 1. Are flagpersons provided with and made to wear high visibility garments while working in vehicular traffic?.....
- 2. Are the warning garments of reflectorized material?.....
- 3. Are flagpersons knowledgeable of standard flag signals to control traffic effectively?.....



Ladders

YES NEEDS
ACTION

- 1. Are employees made aware that metal ladders are not to be used where they may contact electrical conductors or equipment?.....
- 2. Are ladders with broken or missing rungs or split side rails tagged and taken out of service?.....
- 3. Are metal ladders inspected for damage or signs of corrosion?.....
- 4. Are portable wood ladders and metal ladders adequate for their purpose, in good condition, and provided with secure footing?.....
- 5. Are areas around the top and bottom of the ladder kept clear?.....
- 6. Are portable ladders used at such a pitch that horizontal distance from the top bearing to the foot of the ladder is about 1/4 of the working length of the ladder?.....
- 7. Are ladders prohibited from being used in a horizontal position as platforms, runways, or scaffolds?.....
- 8. Are portable ladders tied, blocked, or otherwise secured against movement?.....
- 9. If simultaneous two-way traffic is expected, is a double cleat ladder installed?.....
- 10. Are the rungs of ladders uniformly spaced?.....
- 11. Are the side rails of the ladder extending at least 36 inches above the landing?.....
- 12. Did a competent person provide ladder safety training to all employees?.....
- 13. Are stairways or ladders provided at all break in elevation 19 inches or higher to provide safe access for employees?.....
- 14. Are stairways in good condition and are stair rails provided for stairways having four or more risers?.....

**JOB SAFETY
AND
HEALTH
IS EVERYONE'S BUSINESS**

Up to 50% of the funding for this program has been provided by federal funds.

ON-SITE-CONSULTATION SERVICES

On-Site Consultation is a free program to assist smaller businesses in identifying and correcting potential or current safety or health hazards, and in instituting safety and health programs.

At the employer's request, a consultant will meet with you and explain how the service works, as well as what is involved in a survey of your facility.

The consultant will answer questions regarding occupational safety and health.

On-Site Consultation Service is provided at no cost to employers through federal and state funds. Employers can request the free service or more information by contacting: Division of Labor and Industry, Maryland Occupational Safety and Health, Consultation Services, 10946 Golden West Drive, Suite 160, Hunt Valley, MD 21031, or by calling (410) 527-4472.

Lasers

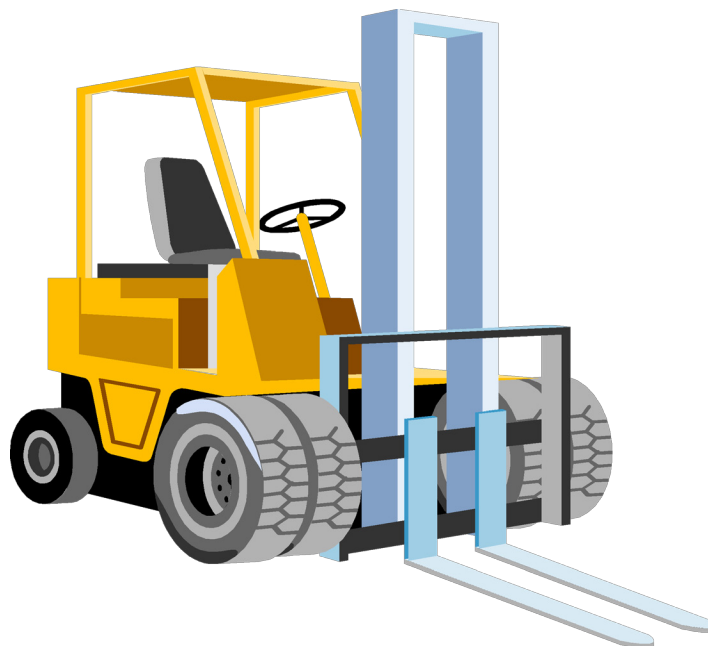
	YES	NEEDS ACTION
1. Are only trained and qualified employees assigned to operate laser equipment?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Do laser operators carry proof of qualification?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Are employees who may be potentially exposed provided with anti-laser eye protection?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Are placards warning of lasers posted in the laser use area?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. When the laser is not in use are beam shutters or caps used or is the unit turned off?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Is it a strict requirement that the laser beam shall never be directed at employees?.....	<input type="checkbox"/>	<input type="checkbox"/>

Lift Trucks

	YES	NEEDS ACTION
1. Before being placed into service are powered industrial trucks examined for any conditions that may adversely affect the safety of the vehicle?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are defective powered industrial trucks immediately repaired or removed from service?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Are the high lift rider trucks equipped with an overhead guard to protect the operator?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Is a vertical load backrest provided to prevent raised loads from falling rearward?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Are powered industrial trucks provided with an audible warning device to alert others in the area of their presence?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Are only trained and qualified personnel permitted to operate powered industrial trucks?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Are the rated load capacities of the powered industrial trucks clearly marked and not exceeded?.....	<input type="checkbox"/>	<input type="checkbox"/>
8. Are raised loads kept as close to the ground as possible to prevent tipping while traveling?.....	<input type="checkbox"/>	<input type="checkbox"/>
9. Are trucks driven with the load facing upgrade, when ascending or descending grades in excess of 10 percent?.....	<input type="checkbox"/>	<input type="checkbox"/>
10. Are the load engaging means fully lowered, controls neutralized, power shut off, and brakes set on unattended powered industrial trucks?.....	<input type="checkbox"/>	<input type="checkbox"/>
11. Are unauthorized riders prohibited from riding on lift trucks?.....	<input type="checkbox"/>	<input type="checkbox"/>
12. Are seat belts worn by operators?.....	<input type="checkbox"/>	<input type="checkbox"/>

Material Hoists

	YES	NEEDS ACTION
1. Are workers prohibited from riding the hoist?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Is overhead protection provided over the cage or platform and the operator's position?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Is a load rating plate attached to the hoist?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Has wire rope been inspected for harmful defects?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Are there at least three full wraps on the winding drum when the platform is at the lowest point of travel?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Is there at least three feet of clearance between the cathead sheave and the top of the cage when it is at the uppermost terminal on the landing?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Are sheave bearings well lubricated?.....	<input type="checkbox"/>	<input type="checkbox"/>
8. Are brakes capable of stopping and holding 125 percent of the rated load?.....	<input type="checkbox"/>	<input type="checkbox"/>
9. Does the operator remain at the controls while the load is suspended or the master clutch is engaged?.....	<input type="checkbox"/>	<input type="checkbox"/>
10. Are gears on the hoisting machine well guarded?.....	<input type="checkbox"/>	<input type="checkbox"/>
11. Are entrances to hoistway guarded or barricaded?.....	<input type="checkbox"/>	<input type="checkbox"/>



Protection from Falls

The largest percentage of fatalities that occur each year are caused by falls.

Guardrail Systems, Canopies and Covers

- | | YES | NEEDS ACTION |
|--|--------------------------|--------------------------|
| 1. On walking working surfaces 6 feet or more in height, are guardrail systems used to prevent falls from unprotected sides, edges, holes, remote excavations, and wall openings?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Are the top edge heights of guardrail system members 42 inches, plus or minus 3 inches, above the walking working surface?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Are wire rope guardrail systems more than 1/4 of an inch in diameter or greater and flagged at 6 foot intervals?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Are canopies, screens, or toeboards installed to prevent falling objects?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Are labeled covers secured over holes?..... | <input type="checkbox"/> | <input type="checkbox"/> |

Personal Fall Arrest System (PFAS)

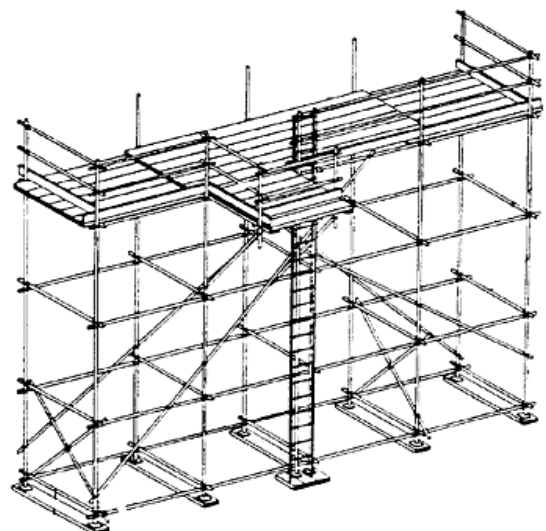
- | | YES | NEEDS ACTION |
|--|--------------------------|--------------------------|
| 1. Is the PFAS used to prevent falls from heights above 6 feet?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Was the PFAS designed and installed by a qualified person to maintain a safety factor of two?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Will the PFAS limit the maximum arresting forces imposed on an employee wearing a body harness to 1,800 pounds?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Is the PFAS rigged in such a manner that an employee can neither free fall more than 6 feet nor contact any lower level?..... | <input type="checkbox"/> | <input type="checkbox"/> |

Safety Net Systems

- | | YES | NEEDS ACTION |
|--|--------------------------|--------------------------|
| 1. Are safety nets installed as close as practicable but no more than 30 feet below the walking working surface?.. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Are safety nets extended beyond the edges of the walking working surfaces 8 to 13 feet depending on the potential fall distance?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Is the potential fall area from the walking working surfaces on bridges to the nets unobstructed?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Is a certification record available stating that a competent person has inspected untested nets?..... | <input type="checkbox"/> | <input type="checkbox"/> |

Scaffolding

- | | YES | NEEDS ACTION |
|--|--------------------------|--------------------------|
| 1. Is the footing of the scaffold sound, rigid, and capable of carrying 4 times the maximum intended load?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Is the scaffold erected under the supervision of someone competent in scaffold erection?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Are guardrails provided on scaffolds more than 10 feet above the ground?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Are heavy loads placed over or near the bearers and not in the center of the plank?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Is planking of sufficient stress grade or scaffold grade timber?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Is planking of platforms overlapped not less than 6 inches or more than 12 inches or secured from movement?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Where persons work under scaffold, is a 1/2 inch mesh screen provided between toeboard and guardrail?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Are poles, legs, or uprights of scaffolds plumb and securely braced to prevent swaying and displacement?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Are defective parts on scaffolds immediately replaced or repaired?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Are guardrails and toeboards installed on all open sides and ends of scaffold platforms?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Are scaffolds equipped with toeboards wherever there is a possibility that falling material could cause a hazard?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Are toeboards at least four inches in height?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. When employees are working on suspended scaffolds, are life lines firmly anchored to an overhead structure and not to the scaffold?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Are employees wearing body harnesses attached to life lines?..... | <input type="checkbox"/> | <input type="checkbox"/> |



Tools

Hand and Power Tools

Accidents with hand tools comprise five percent to ten percent of compensable injuries. Many of these injuries could be avoided with the proper care, maintenance, and use of hand tools.

	YES	NEEDS ACTION
1. Are hand tools and other equipment regularly inspected for safe condition?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are tool handles free of splits and cracks?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Are handles wedged tightly in the heads of all tools?...	<input type="checkbox"/>	<input type="checkbox"/>
4. Are impact tools free of mushroomed heads?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Are the heads of chisels or punches ground periodically to prevent mushrooming?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Are cutting edges kept sharp so the tool will move smoothly without binding or skipping?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Is sharpening, redressing, or repairing tools done properly, using tools suited to each purpose?.....	<input type="checkbox"/>	<input type="checkbox"/>
8. When compressed air is used for cleaning purposes is nozzle pressure safely reduced to less than 30 psi?....	<input type="checkbox"/>	<input type="checkbox"/>
9. Are power saws and similar equipment provided with safety guards?.....	<input type="checkbox"/>	<input type="checkbox"/>
10. Are tools used with the correct shield, guard, or attachments recommended by the manufacturer?.....	<input type="checkbox"/>	<input type="checkbox"/>
11. Are abrasive wheel grinders provided with safety guards which cover the spindle ends, nut, and flange projections?.....	<input type="checkbox"/>	<input type="checkbox"/>
Are work rests and tongue guards properly set?.....	<input type="checkbox"/>	<input type="checkbox"/>
12. Are portable circular saws equipped with guards above and below the base or shoe?.....	<input type="checkbox"/>	<input type="checkbox"/>
13. Are saw guards checked to assure they are not wedged up thereby leaving an unguarded lower portion of the blade?.....	<input type="checkbox"/>	<input type="checkbox"/>
Are springs checked for wear?.....	<input type="checkbox"/>	<input type="checkbox"/>
14. Are guards kept in place and in working order?.....	<input type="checkbox"/>	<input type="checkbox"/>
15. Are rotating or moving parts of equipment guarded to prevent contact by employees?.....	<input type="checkbox"/>	<input type="checkbox"/>
16. Do operators wear eye and face protection when grinding?.....	<input type="checkbox"/>	<input type="checkbox"/>
17. Is the pneumatic hose line secured to the pneumatic tool?.....	<input type="checkbox"/>	<input type="checkbox"/>
Are the tool bits secured by use of safety clips or retainers to prevent accidental disconnecting?.....	<input type="checkbox"/>	<input type="checkbox"/>
18. Are appropriate ground-fault circuit interrupters provided at the job site?.....	<input type="checkbox"/>	<input type="checkbox"/>
19. Is an assured equipment grounding conductor program established and implemented at the job site?.....	<input type="checkbox"/>	<input type="checkbox"/>

Tools (Continued)

	YES	NEEDS ACTION
20. Are electric powered tools double-insulated or properly grounded?.....	<input type="checkbox"/>	<input type="checkbox"/>
21. Is eye and face protection used when driving hardened or tempered studs or nails?.....	<input type="checkbox"/>	<input type="checkbox"/>
22. Are tools stored in a dry, secure location where they won't be tampered with?.....	<input type="checkbox"/>	<input type="checkbox"/>

Powder Actuated Tools

	YES	NEEDS ACTION
1. Do all users of powder actuated tools possess an "Operator's Card" to demonstrate that they have been trained?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are tools left unloaded until they are ready for immediate use?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Are tools inspected each day for defects or obstructions prior to use?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Are the following types of personal protective equipment used by operators and others in areas of tool use?		
a. Hard hats?.....	<input type="checkbox"/>	<input type="checkbox"/>
b. Safety goggles?.....	<input type="checkbox"/>	<input type="checkbox"/>
c. Safety Shoes?.....	<input type="checkbox"/>	<input type="checkbox"/>
d. Ear protection when making fastenings in confined areas such as small rooms, tanks, vaults, or ship compartments?.....	<input type="checkbox"/>	<input type="checkbox"/>

Trenches & Excavations

	YES	NEEDS ACTION
1. Has the utility company been notified of intended digging?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are daily inspections made of the excavation to determine the possibility of a cave-in and are necessary steps taken to protect employees?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Are shoring and sloping systems used to support the walls and faces of the excavations sufficient to ensure against cave-ins?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Is there a ladder in the excavation?.....	<input type="checkbox"/>	<input type="checkbox"/>



Protecting Workers' Health

Although many safety hazards are apparent upon a simple examination of equipment and procedures, occupational health hazards require a more thorough evaluation. Identification and recognition of the hazard, evaluation of the potential problem, and the workplace control are key elements in protecting worker's health.

RECOGNITION - Read the labels from all materials in the workplace for material, composition, and precautions. Request a "material safety data sheet" for each material from a distributor or from the manufacturer. Listed will be corresponding OSHA/MOSH permissible exposure limits (PELs) or "threshold limit values" (TLVs) and information on personal protective equipment such as respirators, gloves, aprons, safety glasses, emergency spills, labeling criteria, and emergency information.

EVALUATION - Study the work process in which the material is used to determine if a hazard has been created. Evaluate the way workers handle the material. Does the worker breathe this substance or does the substance go through his or her skin? Are workers exposed to enough of this substance to create a problem?

WORKPLACE CONTROL - In order to prevent health problems before they start, certain measures can be taken to control exposure. Are ventilation or process controls used when feasible? If the material is extremely toxic, can a less toxic substance be substituted? Are hazardous substances labeled and are workers knowledgeable of the hazard? Are appropriate personal protective devices provided when engineering and/or administrative controls are not adequate or feasible? Are medical exams provided when workers are exposed to certain substances?

Access to Information About Hazardous & Toxic Substances

	YES	NEEDS ACTION
1. Have you evaluated your work site for compliance with this Law?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Has a chemical information list been compiled?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Have material safety data sheets (MSDS) been obtained or developed for all substances on the chemical information list?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Has the list been sent to the Maryland Department of the Environment?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Are MSDS readily accessible to employees?.....	<input type="checkbox"/>	<input type="checkbox"/>
Is the chemical information list accessible to employees?.....	<input type="checkbox"/>	<input type="checkbox"/>
Are copies provided within 5 days of a request?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. When new substances are brought on-site are additional MSDS ordered?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Has each employer provided for the exchange of information regarding hazardous chemicals used or stored on-site with all other employers at that site?.....	<input type="checkbox"/>	<input type="checkbox"/>
8. Have employees been informed of their rights under this Law and procedures for obtaining information on hazardous substances?.....	<input type="checkbox"/>	<input type="checkbox"/>
9. Have employees been trained about the hazards of the substances, appropriate work practices, control programs, protective measures, and emergency procedures?.....	<input type="checkbox"/>	<input type="checkbox"/>

Asbestos

	YES	NEEDS ACTION
1. Are materials containing more than 1% asbestos (ACM) handled in accordance with the construction asbestos standard?.....	<input type="checkbox"/>	<input type="checkbox"/>
Are thermal system insulation and surfacing material found in building constructed before 1980 treated as presumed asbestos containing materials (PACM), unless demonstrated to be otherwise using the protocol of materials in the construction asbestos standard?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are class II and III asbestos work operations being conducted in regulated areas?.....	<input type="checkbox"/>	<input type="checkbox"/>
a. Are they properly enclosed and posted?.....	<input type="checkbox"/>	<input type="checkbox"/>
b. Is access limited to authorized personnel?.....	<input type="checkbox"/>	<input type="checkbox"/>
c. Are appropriate respirators worn by entrants?.....	<input type="checkbox"/>	<input type="checkbox"/>
d. Is eating, drinking, smoking, and gum chewing prohibited?.....	<input type="checkbox"/>	<input type="checkbox"/>
e. Is there an adjacent clean room and decontamination area?.....	<input type="checkbox"/>	<input type="checkbox"/>
f. Are operations supervised by a competent person?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Do work practices and methods of control conform to the construction asbestos standard?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Is an exposure assessment conducted by the competent person immediately before or at the initiation of operations to determine devices provided when engineering and/or administrative expected exposures?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Is air monitoring conducted in the manner and at the frequency specified in the construction asbestos standard?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Do work practices and methods of control keep employee exposures below and 8-hour TWA of 0.1 f/cc?.....	<input type="checkbox"/>	<input type="checkbox"/>
In addition, are all 30-minute exposures maintained below 1 f/cc?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Are respirators and protective clothing properly selected and used?.....	<input type="checkbox"/>	<input type="checkbox"/>
8. Are respirators and containers of asbestos waste properly labeled?.....	<input type="checkbox"/>	<input type="checkbox"/>
Are waste containers impermeable and sealed prior to disposal?.....	<input type="checkbox"/>	<input type="checkbox"/>
9. Has an employee information and training program been implemented?.....	<input type="checkbox"/>	<input type="checkbox"/>
10. Have other on-site employers been informed of the nature of the asbestos-related activity and of measures to take to prevent exposure?.....	<input type="checkbox"/>	<input type="checkbox"/>
11. If required, has an employee medical surveillance program been implemented?.....	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all activities involving asbestos being conducted in compliance with regulations established by the Department of the Environment?.....	<input type="checkbox"/>	<input type="checkbox"/>

Carbon Monoxide

	YES	NEEDS ACTION
1. Are salamanders and fire pots vented to the outside atmosphere?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are exhaust manifolds, pipes, and mufflers in good repair to eliminate harmful leakage of the engine exhaust?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Is equipment maintained in good repair to reduce the amount of unburned hydrocarbons which result in the manufacture of carbon monoxide?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Are pipings to the outdoors used when engines must be run for repair or adjustments while they are in enclosed areas?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Are carbon monoxide levels checked regularly?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Is employee exposure well below the allowable 50 parts per million?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Is natural or mechanical ventilation provided to remove harmful carbon monoxide gases?.....	<input type="checkbox"/>	<input type="checkbox"/>

Confined Spaces

	YES	NEEDS ACTION
1. Is the internal atmosphere tested to assure an oxygen level of not less than 19.5%?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. If the confined space is a manhole, is it impossible for vehicular exhaust or carbon monoxide to creep into the space?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Has the space been examined for decaying vegetation and animal matter which may produce methane?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Has the space been surveyed for possible industrial waste which may contribute to the accumulation of a toxic or combustible atmosphere?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. When there is inadequate natural air movement and adequate forced ventilation is not provided, is the internal atmosphere tested for combustible gas and air contaminants?.....	<input type="checkbox"/>	<input type="checkbox"/>
Has an adequate oxygen concentration been assured prior to testing for combustible gas and air contaminants?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the space ventilated to a safe level before employees enter?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. If ventilation does not reduce or remove the hazardous substance, do employees wear an appropriate approved respirator to enter the space?.....	<input type="checkbox"/>	<input type="checkbox"/>
8. Are employees trained in the use of respirators?.....	<input type="checkbox"/>	<input type="checkbox"/>
9. Are electrical services other than lights made inoperable by a padlock and tagging?.....	<input type="checkbox"/>	<input type="checkbox"/>
10. Are employees inside and outside the confined space trained in rescue and CPR procedures?.....	<input type="checkbox"/>	<input type="checkbox"/>

Confined Spaces (Continued)

	YES	NEEDS ACTION
11. Is rescue equipment readily available for immediate use?.....	<input type="checkbox"/>	<input type="checkbox"/>
12. Is there constant communication with employees in the immediate vicinity who are not in the confined space?..	<input type="checkbox"/>	<input type="checkbox"/>
13. Is there a written procedure covering entry under emergency conditions?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. If you have a subcontractor:		
a. have you orally notified to Commissioner of Labor and Industry of the start of work in a confined space?.....	<input type="checkbox"/>	<input type="checkbox"/>
b. have you submitted written notification to the Commissioner within 24 hours of your oral notification?.....	<input type="checkbox"/>	<input type="checkbox"/>

Dust, Gases, Vapors, Fumes, & Mists

	YES	NEEDS ACTION
1. Are material safety data sheets maintained on each product in use at the construction site?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are agents identified which may cause harm by inhalation, ingestion, skin absorption, or contact?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Can a less harmful method or product be used?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Is adequate ventilation provided?.....	<input type="checkbox"/>	<input type="checkbox"/>
5. Is protective equipment used to protect against over-exposure?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Are employees made knowledgeable of the hazards when working with harmful agents?.....	<input type="checkbox"/>	<input type="checkbox"/>



Lead in Construction

	YES	NEEDS ACTION
1. Has a determination been made as to the possibility of airborne lead exposure on the job? (Significant airborne lead exposures can occur when welding, cutting, grinding, and abrasive blasting are performed during structural steel demolition and renovation.).....	<input type="checkbox"/>	<input type="checkbox"/>
2. If it has been determined that employees may have been exposed to airborne lead, have you:		
a. designated a competent person?.....	<input type="checkbox"/>	<input type="checkbox"/>
b. become familiar with the Lead Exposure in Construction Standard (as modified by Maryland)?	<input type="checkbox"/>	<input type="checkbox"/>
c. conducted representative personal monitoring to assess employee exposures?.....	<input type="checkbox"/>	<input type="checkbox"/>
d. arranged for appropriate protection for employees during the assessment period?.....	<input type="checkbox"/>	<input type="checkbox"/>
e. trained employees?.....	<input type="checkbox"/>	<input type="checkbox"/>
f. provided hand washing facilities?.....	<input type="checkbox"/>	<input type="checkbox"/>
g. determined if your activity is also covered by Maryland Department of the Environment Regulations?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. If exposures exceed the action level:		
a. has a medical surveillance program been established?.....	<input type="checkbox"/>	<input type="checkbox"/>
b. have provisions been made for the required periodic air monitoring?.....	<input type="checkbox"/>	<input type="checkbox"/>
c. has additional training been provided?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. If exposures exceed the permissible exposure level, have the following additional requirements been met?		
a. Use of engineering and work practice controls to reduce exposures.....	<input type="checkbox"/>	<input type="checkbox"/>
b. Use of adequate personal protective equipment, including respiratory protection.....	<input type="checkbox"/>	<input type="checkbox"/>
c. Prohibition of food and beverage consumption and smoking in exposed areas.....	<input type="checkbox"/>	<input type="checkbox"/>
d. Establishment of a food and beverage consumption area.....	<input type="checkbox"/>	<input type="checkbox"/>
e. Establishment of a change area with storage facilities.....	<input type="checkbox"/>	<input type="checkbox"/>
f. Provision of showering facilities.....	<input type="checkbox"/>	<input type="checkbox"/>
g. Posting of warning signs at exposure area.....	<input type="checkbox"/>	<input type="checkbox"/>

Lighting

	YES	NEEDS ACTION
1. Are 5 foot-candles of illumination provided throughout the general construction area?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are the workshops and storerooms provided with 10 foot-candles of illuminations?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Is the first aid station illuminated to 30 foot-candles?...	<input type="checkbox"/>	<input type="checkbox"/>
4. Are light guards provided where there is a possibility of breakage?.....	<input type="checkbox"/>	<input type="checkbox"/>

Lighting (Continued)

	YES	NEEDS ACTION
5. Are the light fixtures raised above the worker's heads?	<input type="checkbox"/>	<input type="checkbox"/>
6. Are wire guards grounded to the electrical grounding system?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Are stairways, floor opening areas, and wall opening areas well illuminated?.....	<input type="checkbox"/>	<input type="checkbox"/>

Noise

	YES	NEEDS ACTION
1. Are hearing protectors and a hearing conservation program provided for noise levels above 90 decibels?	<input type="checkbox"/>	<input type="checkbox"/>
2. Have administrative or engineering controls been applied to eliminate or reduce the excessive noise?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. If administrative or engineering controls are not feasible, is personal hearing protection provided to reduce sound levels?.....	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the use of hearing protection equipment enforced?..	<input type="checkbox"/>	<input type="checkbox"/>
5. Is hearing protection equipment correctly fitted and maintained in a clean and sanitary condition?.....	<input type="checkbox"/>	<input type="checkbox"/>
6. Is an audiometric testing program in effect?.....	<input type="checkbox"/>	<input type="checkbox"/>
7. Are employees instructed in the effects of noise on hearing, the signs of over-exposure to noise, and proper use of hearing protectors?.....	<input type="checkbox"/>	<input type="checkbox"/>

Silica

	YES	NEEDS ACTION
1. Is adequate exhaust provided to remove silica dust particles from the work area or operation?.....	<input type="checkbox"/>	<input type="checkbox"/>
2. Are respirators provided to employees who may be over-exposed to silica dust particles?.....	<input type="checkbox"/>	<input type="checkbox"/>
3. Can certain grinding, sandblasting, or mixing operations be performed by wet method to reduce the airborne silica hazard?.....	<input type="checkbox"/>	<input type="checkbox"/>

**Division of Labor and Industry
MARYLAND OCCUPATIONAL SAFETY AND HEALTH**

10946 Golden West Drive, Suite 160
Hunt Valley, MD 21031
(410) 527-4499

General Information

Phone: (410) 527-4499
Fax: (410) 527-4481

Consultation Services

Phone: (410) 527-4472
Fax: (410) 527-5678

Training and Education

Phone: (410) 527-2091
Fax: (410) 527-4490