

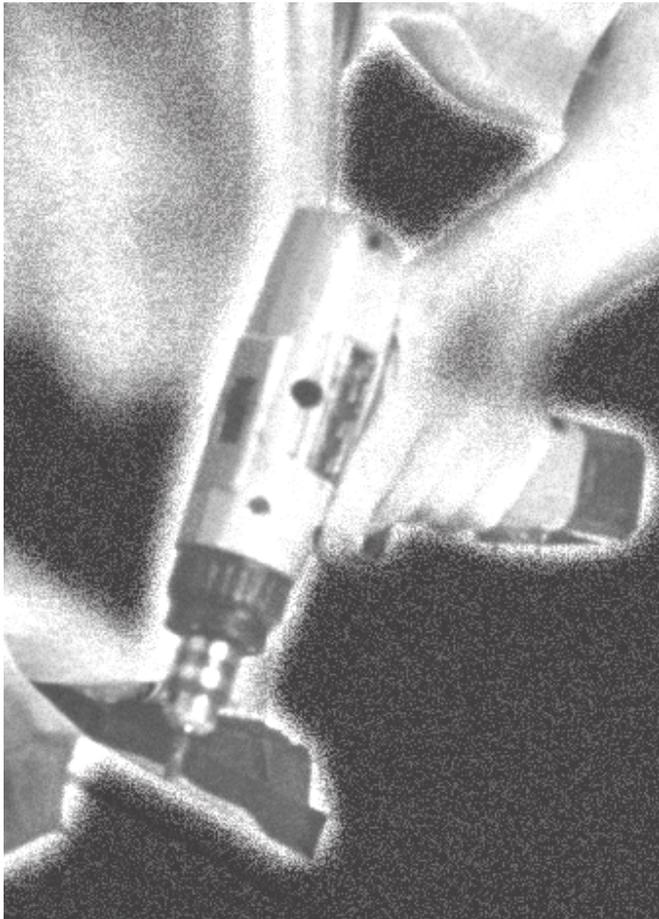
# Hand and Power Tools



U.S. Department of Labor

Occupational Safety and Health Administration

OSHA 3080  
1998 (Revised)





# Hand and Power Tools

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U.S. Department of Labor  
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Occupational Safety and Health Administration  
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This booklet is designed to present to employees and employers a summary of the basic safety procedures and safeguards associated with hand and portable power tools.

Material in this booklet is based on the standards of the Occupational Safety and Health Administration; this booklet, however, should not be considered as a substitute for the full safety and health standards for general industry (published in the *Code of Federal Regulations*, Title 29, Part 1910, Subpart P), or for the construction industry (published in the *Code of Federal Regulations*, Title 29, Part 1926, Subpart I). These are also available on the World Wide Web at <http://www.osha.gov>.

Employers and employees in the 25 states and/or territories with OSHA-approved state safety and health plans should check with their state agency. Their state may be enforcing standards and other procedures that, while “at least as effective as” federal standards, are not always identical to the federal requirements. (See page 13 for more information on state plans.)

Tools are such a common part of our lives that it is difficult to remember that they may pose hazards. Tragically, a serious incident can occur before steps are taken to identify and avoid or eliminate tool-related hazards.

Employees who use hand and power tools and are exposed to the hazards of falling, flying, abrasive, and splashing objects, or to harmful dusts, fumes, mists, vapors, or gases must be provided with the appropriate personal protective equipment. All electrical connections for these tools must be suitable for the type of tool and the working conditions (wet, dusty, flammable vapors). When a temporary power source is used for construction a ground-fault circuit interrupter should be used.

Employees should be trained in the proper use of all tools. Workers should be able to recognize the hazards associated with the different types of tools and the safety precautions necessary.

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Five basic safety rules can help prevent hazards associated with the use of hand and power tools:

- Keep all tools in good condition with regular maintenance.
- Use the right tool for the job.
- Examine each tool for damage before use and do not use damaged tools.
- Operate tools according to the manufacturers' instructions.
- Provide and use properly the right personal protective equipment.

Employees and employers should work together to establish safe working procedures. If a hazardous situation is encountered, it should be brought immediately to the attention of the proper individual for hazard abatement.

The following sections identify various types of hand and power tools and their potential hazards. They also identify ways to prevent worker injury through proper use of the tools and through the use of appropriate personal protective equipment.

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Hand tools are tools that are powered manually. Hand tools include anything from axes to wrenches. The greatest hazards posed by hand tools result from misuse and improper maintenance.

Some examples include the following:

- If a chisel is used as a screwdriver, the tip of the chisel may break and fly off, hitting the user or other employees.
- If a wooden handle on a tool, such as a hammer or an axe is loose, splintered, or cracked, the head of the tool may fly off and strike the user or other employees.
- If the jaws of a wrench are sprung, the wrench might slip.
- If impact tools, such as chisels, wedges, or drift pins have mushroomed heads, the heads might shatter on impact, sending sharp fragments flying toward the user or other employees.

The employer is responsible for the safe condition of tools and equipment used by employees. Employers shall not issue or permit the use of unsafe hand tools. Employees should be trained in the proper use and handling of tools and equipment.

Employees, when using saw blades, knives, or other tools, should direct the tools away from aisle areas and away from other employees working in close proximity. Knives and scissors must be sharp; dull tools can cause more hazards than sharp ones. Cracked saw blades must be removed from service.

Wrenches must not be used when jaws are sprung to the point that slippage occurs. Impact tools such as drift pins, wedges, and chisels, must be kept free of mushroomed heads. The wooden handles of tools must not be splintered.

Iron or steel hand tools may produce sparks that can be an ignition source around flammable substances. Where this hazard exists, spark-resistant tools made of non-ferrous materials should be used where flammable gases, highly volatile liquids, and other explosive substances are stored or used.

Appropriate personal protective equipment, such as safety goggles and gloves, must be worn to protect against hazards that may be encountered while using hand tools.

Workplace floors shall be kept as clean and dry as possible to prevent accidental slips with or around dangerous hand tools.

Power tools must be fitted with guards and safety switches; they are extremely hazardous when used improperly. The types of power tools are determined by their power source: electric, pneumatic, liquid fuel, hydraulic, and powder-actuated.

To prevent hazards associated with the use of power tools, workers should observe the following general precautions:

- Never carry a tool by the cord or hose.
  - Never yank the cord or the hose to disconnect it from the receptacle.
  - Keep cords and hoses away from heat, oil, and sharp edges.
  - Disconnect tools when not using them, before servicing and cleaning them, and when changing accessories such as blades, bits, and cutters.
  - Keep all people not involved with the work at a safe distance from the work area.
  - Secure work with clamps or a vise, freeing both hands to operate the tool.
  - Avoid accidental starting. Do not hold fingers on the switch button while carrying a plugged-in tool.
  - Maintain tools with care; keep them sharp and clean for best performance.
  - Follow instructions in the user's manual for lubricating and changing accessories.
  - Be sure to keep good footing and maintain good balance when operating power tools.
  - Wear proper apparel for the task. Loose clothing, ties, or jewelry can become caught in moving parts.
  - Remove all damaged portable electric tools from use and tag them: "Do Not Use."
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## Guards

The exposed moving parts of power tools need to be safeguarded. Belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts of equipment must be guarded.

Machine guards, as appropriate, must be provided to protect the operator and others from the following:

- Point of operation.
- In-running nip points.
- Rotating parts.
- Flying chips and sparks.

Safety guards must never be removed when a tool is being used. Portable circular saws having a blade greater than 2 inches (5.08 centimeters) in diameter must be equipped at all times with guards. An upper guard must cover the entire blade of the saw. A retractable lower guard must cover the teeth of the saw, except where it makes contact with the work material. The lower guard must automatically return to the covering position when the tool is withdrawn from the work material.

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## Operating Controls and Switches

The following hand-held power tools must be equipped with a constant-pressure switch or control: drills; tappers; fastener drivers; horizontal, vertical, and angle grinders with wheels more than 2 inches (5.08 centimeters) in diameter; disc sanders with discs greater than 2 inches (5.08 centimeters); belt sanders; reciprocating saws; saber saws, scroll saws, and jigsaws with blade shanks greater than 1/4-inch (0.63 centimeters) wide; and other similar tools. These tools also may be equipped with a “lock-on” control, if it allows the worker to also shut off the control in a single motion using the same finger or fingers.

The following hand-held power tools must be equipped with either a positive “on-off” control switch, a constant pressure switch, or a “lock-on” control: disc sanders with discs 2 inches (5.08 centimeters) or less in diameter; grinders with wheels 2 inches (5.08 centimeters) or less in diameter; platen sanders,

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routers, planers, laminate trimmers, nibblers, shears, and scroll saws; and jigsaws, saber and scroll saws with blade shanks a nominal 1/4-inch (6.35 millimeters) or less in diameter. It is recommended that the constant-pressure control switch be regarded as the preferred device.

Other hand-held power tools, such as circular saws having a blade diameter greater than 2 inches (5.08 centimeters), chain saws, and percussion tools with no means of holding accessories securely, must be equipped with a constant-pressure switch that will shut off the power when the pressure is released.

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### **Electric Tools**

Employees using electric tools must be aware of several dangers. Among the most serious hazards are electrical burns and shocks.

Shocks, which can lead to injuries or even heart failure, and burns, are among the major hazards associated with electric-powered tools. Under certain conditions, even a small amount of electric current can result in fibrillation of the heart and death. An electric shock also can cause the user to fall off of a ladder or other elevated work surface and be injured due to the fall.

To protect the user from shock and burns, electric tools must have a three-wire cord with ground and be plugged into a grounded receptacle, be double insulated, or be powered by a low-voltage isolation transformer. Three-wire cords contain two current-carrying conductors and a grounding conductor. Any time an adapter is used to accommodate a two-hole receptacle, the adapter wire must be attached to a known ground. The third prong must never be removed from the plug.

Double-insulated tools are available that provide protection against electrical shock without third-wire grounding. On double-insulated tools, an internal layer of protective insulation completely isolates the external housing of the tool.

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The following general practices should be followed when using electric tools:

- Operate electric tools within their design limitations.
- Use gloves and appropriate safety footwear when using electric tools.
- Store electric tools in a dry place when not in use.
- Do not use electric tools in damp or wet locations unless they are approved for that purpose.
- Keep work areas well lighted when operating electric tools.
- Ensure that cords from electric tools do not present a tripping hazard.

In the construction industry, employees who use electric tools must be protected by ground-fault circuit interrupters or an assured equipment-grounding conductor program.

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### **Portable Abrasive Wheel Tools**

Portable abrasive grinding, cutting, polishing, and wire buffing wheels create special safety problems because they may throw off flying fragments. Abrasive wheel tools must be equipped with guards that: (1) cover the spindle end, nut, and flange projections; (2) maintain proper alignment with the wheel; and (3) do not exceed the strength of the fastenings.

Before an abrasive wheel is mounted, it must be inspected closely for damage and should be sound- or ring-tested to ensure that it is free from cracks or defects. To test, wheels should be tapped gently with a light, non-metallic instrument. If the wheels sound cracked or dead, they must not be used because they could fly apart in operation. A stable and undamaged wheel when tapped will give a clear metallic tone or “ring.”

To prevent an abrasive wheel from cracking, it must fit freely on the spindle. The spindle nut must be tightened enough to hold the wheel in place without distorting the flange. Always follow the manufacturer’s recommendations. Take care to ensure that the spindle speed of the machine will not exceed the maximum operating speed marked on the wheel.

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An abrasive wheel may disintegrate or explode during start-up. Allow the tool to come up to operating speed prior to grinding or cutting. The employee should never stand directly in front of the wheel as it accelerates to full operating speed. Portable grinding tools need to be equipped with safety guards to protect workers not only from the moving wheel surface, but also from flying fragments in case of wheel breakage.

When using a powered grinder:

- Always use eye or face protection.
- Turn off the power when not in use.
- Never clamp a hand-held grinder in a vise.

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## **Pneumatic Tools**

Pneumatic tools are powered by compressed air and include chippers, drills, hammers, and sanders.

There are several dangers associated with the use of pneumatic tools. First and foremost is the danger of getting hit by one of the tool's attachments or by some kind of fastener the worker is using with the tool.

Pneumatic tools must be checked to see that the tools are fastened securely to the air hose to prevent them from becoming disconnected. A short wire or positive locking device attaching the air hose to the tool must also be used and will serve as an added safeguard.

If an air hose is more than 1/2 inch (12.7 millimeters) in diameter, a safety excess flow valve must be installed at the source of the air supply to reduce pressure in case of hose failure.

In general, the same precautions should be taken with an air hose that are recommended for electric cords, because the hose is subject to the same kind of damage or accidental striking, and because it also presents tripping hazards.

When using pneumatic tools, a safety clip or retainer must be installed to prevent attachments, such as chisels on a chipping hammer, from being ejected during tool operation.

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Pneumatic tools that shoot nails, rivets, staples, or similar fasteners, and operate at pressures more than 100 pounds per square inch (6,890 kPa), must be equipped with a special device to keep fasteners from being ejected, unless the muzzle is pressed against the work surface.

Airless spray guns that atomize paints and fluids at pressures of 1,000 pounds or more per square inch (6,890 kPa) must be equipped with automatic or visible manual safety devices that will prevent pulling the trigger until the safety device is manually released.

Eye protection is required, and head and face protection is recommended, for employees working with pneumatic tools.

Screens must also be set up to protect nearby workers from being struck by flying fragments around chippers, riveting guns, staplers, or air drills.

Compressed air guns should never be pointed toward anyone. Workers should never “dead-end” them against themselves or anyone else. A chip guard must be used when compressed air is used for cleaning.

Use of heavy jackhammers can cause fatigue and strains. Heavy rubber grips reduce these effects by providing a secure handhold. Workers operating a jackhammer must wear safety glasses and safety shoes that protect them against injury if the jackhammer slips or falls. A face shield also should be used.

Noise is another hazard associated with pneumatic tools. Working with noisy tools, such as jackhammers, requires proper, effective use of appropriate hearing protection.

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### **Liquid Fuel Tools**

Fuel-powered tools are usually operated on gasoline. The most serious hazard associated with the use of fuel-powered tools comes from fuel vapors that can burn or explode and also give off dangerous exhaust fumes. The worker must be careful to handle, transport, and store gas or fuel only in approved flammable liquid containers, according to proper procedures for flammable liquids.

Before refilling a fuel-powered tool tank, the user must shut-down the engine and allow it to cool to prevent accidental ignition of hazardous vapors. When a fuel-powered tool is used

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inside a closed area, effective ventilation and/or proper respirators, i.e., atmosphere-supplying respirators, must be utilized to avoid breathing carbon monoxide. Fire extinguishers must also be available in the area.

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### **Powder-Actuated Tools**

Powder-actuated tools operate like a loaded gun and must be treated with extreme caution. In fact, they are so dangerous that they must be operated only by specially trained employees.

When using powder-actuated tools, an employee must wear suitable ear, eye, and face protection. The user must select a powder level—high or low velocity—that is appropriate for the powder-actuated tool and necessary to do the work without excessive force.

The muzzle end of the tool must have a protective shield or guard centered perpendicular to and concentric with the barrel to confine any fragments or particles that are projected when the tool is fired. A tool containing a high-velocity load must be designed not to fire unless it has this kind of safety device.

To prevent the tool from firing accidentally, two separate motions are required for firing. The first motion is to bring the tool into the firing position, and the second motion is to pull the trigger. The tool must not be able to operate until it is pressed against the work surface with a force of at least 5 pounds (2.2 kg) greater than the total weight of the tool.

If a powder-actuated tool misfires, the user must hold the tool in the operating position for at least 30 seconds before trying to fire it again. If it still will not fire, the user must hold the tool in the operating position for another 30 seconds and then carefully remove the load in accordance with the manufacturer's instructions. This procedure will make the faulty cartridge less likely to explode. The bad cartridge should then be put in water immediately after removal. If the tool develops a defect during use, it should be *tagged* and must be *taken out of service immediately* until it is properly repaired.

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Safety precautions that must be followed when using powder-actuated tools include the following:

- Do not use a tool in an explosive or flammable atmosphere.
- Inspect the tool before using it to determine that it is clean, that all moving parts operate freely, and that the barrel is free from obstructions and has the proper shield, guard, and attachments recommended by the manufacturer.
- Do not load the tool unless it is to be used immediately.
- Do not leave a loaded tool unattended, especially where it would be available to unauthorized persons.
- Keep hands clear of the barrel end.
- Never point the tool at anyone.

When using powder-actuated tools to apply fasteners, several additional procedures must be followed:

- Do not fire fasteners into material that would allow the fasteners to pass through to the other side.
- Do not drive fasteners into very hard or brittle material that might chip or splatter, or make the fasteners ricochet.
- Always use an alignment guide when shooting fasteners into existing holes.
- When using a high-velocity tool, do not drive fasteners more than 3 inches (7.62 centimeters) from an unsupported edge or corner of material such as brick or concrete.
- When using a high velocity tool, do not place fasteners in steel any closer than 1/2 inch (1.27 centimeters) from an unsupported corner edge unless a special guard, fixture, or jig is used.

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## Hydraulic Power Tools

The fluid used in hydraulic power tools must be an approved fire-resistant fluid and must retain its operating characteristics at the most extreme temperatures to which it will be exposed. The exception to fire-resistant fluid involves all hydraulic fluids used for the insulated sections of derrick trucks, aerial lifts, and hydraulic tools that are used on or around energized lines. This hydraulic fluid shall be of the insulating type.

The manufacturer's recommended safe operating pressure for hoses, valves, pipes, filters, and other fittings must not be exceeded.

All jacks—including lever and ratchet jacks, screw jacks, and hydraulic jacks—must have a stop indicator, and the stop limit must not be exceeded. Also, the manufacturer's load limit must be permanently marked in a prominent place on the jack, and the load limit must not be exceeded.

A jack should never be used to support a lifted load. Once the load has been lifted, it must immediately be blocked up. Put a block under the base of the jack when the foundation is not firm, and place a block between the jack cap and load if the cap might slip.

To set up a jack, make certain of the following:

- The base of the jack rests on a firm, level surface;
- The jack is correctly centered;
- The jack head bears against a level surface; and
- The lift force is applied evenly.

Proper maintenance of jacks is essential for safety. All jacks must be lubricated regularly. In addition, each jack must be inspected according to the following schedule: (1) for jacks used continuously or intermittently at one site—inspected at least once every 6 months, (2) for jacks sent out of the shop for special work—inspected when sent out and inspected when returned, and (3) for jacks subjected to abnormal loads or shock—inspected before use and immediately thereafter.

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## Safety and Health Program Management Guidelines

Effective management of worker safety and health protection is a decisive factor in reducing the extent and severity of work-related injuries and illnesses and their related costs. To assist employers and employees in developing effective safety and health programs, OSHA published recommended *Safety and Health Program Management Guidelines* (*Federal Register* 54(18): 3908-3916, January 26, 1989). These voluntary guidelines apply to all places of employment covered by OSHA.

The guidelines identify four general elements that are critical to the development of a successful safety and health management program:

- Management commitment and employee involvement;
- Worksite analysis;
- Hazard prevention and control; and
- Safety and health training.

The guidelines recommend specific actions, under each of these general elements, to achieve an effective safety and health program.

For the construction industry, the applicable standards for programs and training are shown in *Title 20* of the *Code of Federal Regulations, Part 1926, Subpart C* and other specific sections of *29 CFR 1926*. A single free copy of the guidelines can be obtained from the U.S. Department of Labor, OSHA/OICA Publications, P.O. Box 37535, Washington DC 20210, by sending a self-addressed mail label with your request. This information is also available on the Internet at <http://www.osha.gov/>.

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## State Programs

The *Occupational Safety and Health Act of 1970 (OSH Act)* encourages states to develop and operate their own job safety and health plans. States with plans approved under section 18(b) of the *OSH Act* must adopt standards and enforce requirements that are at least as effective in protecting employees as federal requirements. There are currently 25 state plan and territories—

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23 covering both private and public (state and local government) employees and two covering public sector employees only. Plan states must adopt standards comparable (but not necessarily identical) to the federal standard within 6 months of a federal standard's promulgation. Until a state standard is promulgated, OSHA will provide interim enforcement assistance, as appropriate, in these states. A listing of states with approved plans appears at the end of this publication.

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### **Free Onsite Consultation**

Free onsite safety and health consultation services are available in all states to employers who want help in establishing and maintaining a safe and healthful workplace. Primarily developed for small businesses with more hazardous operations, the OSHA Consultation Service is largely funded by OSHA and is delivered by state governments employing professional safety consultants and health consultants. The comprehensive assistance that is offered includes an appraisal of all mechanical systems, physical work practices, and environmental hazards of the workplace, and all aspects of the employer's present job safety and health program. In addition, the service offers assistance to employers in developing and implementing an effective workplace safety and health program that corrects and continuously addresses safety and health concerns.

This program is completely separate from OSHA's inspection efforts. No penalties are proposed or citations issued for any safety or health problems identified by the consultant. The service is confidential. The employer's name, the firm's name, and any information about the workplace, plus any unsafe or unhealthful working conditions that the consultant uncovers, will not be reported routinely to the OSHA inspection staff unless the hazard is an "imminent danger" to employees and the employer refuses to abate the hazard immediately.

The only obligation is the employer's commitment to correct serious job safety and health hazards in a timely manner. The employer is asked to make this commitment prior to the actual visit.

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For more information on consultation services, see the list of state consultation projects at the end of this publication.

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### **Voluntary Protection Programs**

The Voluntary Protection Programs (VPP) are designed to recognize and promote effective safety and health program management. In the VPP, management, labor, and OSHA establish cooperative relationships at workplaces that have implemented strong programs.

Sites approved for VPP's Star, Merit, and Demonstration programs have met, and must continue to meet, rigorous participation standards. Benefits of VPP participation include improved employee motivation to work safely, leading to better quality work and productivity; lost-workday case rates that generally are 60 percent to 80 percent below industry averages; reduced workers' compensation and other injury- and illness-related costs; positive community recognition and interaction; further improvement and revitalization of already good safety and health programs; and partnership with OSHA.

VPP and onsite consultation services, when coupled with an effective enforcement program, expand worker protection to help meet the goals of the *OSH Act*.

For additional information about the VPP, contact the VPP Manager in your OSHA Regional Office, listed at the end of this publication.

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### **Training and Education**

OSHA's area offices offer a variety of informational services, such as publications, audiovisual aids, technical advice, and speakers for special engagements. OSHA's Training Institute in Des Plaines, IL, provides basic and advanced courses in safety and health for federal and state compliance officers, state consultants, federal agency personnel, and private sector employers, employees, and their representatives.

The OSHA Training Institute also has established OSHA Training Institute Education Centers to address the increased demand from the private sector and various federal agencies for

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its courses. These centers are nonprofit colleges, universities, and other organizations that have been selected after a competition for participation in the program.

OSHA also provides funds to nonprofit organizations, through grants, to conduct workplace training and education in subjects where OSHA believes there is a lack of workplace training. Grants are awarded annually. Grant recipients are expected to contribute 20 percent of the total grant cost.

For more information on grants, training, and education, contact the OSHA Training Institute, Office of Training and Education, 1555 Times Drive, Des Plaines, IL 60018, (847) 297-4810, Fax (847) 297-4874.

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### **Electronic Information**

Internet—OSHA standards, interpretations, directives, and additional information are now on the World Wide Web at <http://www.osha.gov/>.

CD-ROM—A wide variety of OSHA materials including standards, interpretations, directives, and more can be purchased on CD-ROM from the Government Printing Office. To order write to the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Specify OSHA regulations, Documents & Technical Information on CD-ROM, (ORDT), S/N 729-013000000-5. The price is \$43.00 per year (\$53.75 foreign); a single copy is \$17.00 (\$21.25 foreign).

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### **Emergencies**

*For life-threatening situations only*, call (800) 321-OSHA. Complaints will go immediately to the nearest OSHA area or state office for help.

For further information on any OSHA program, contact your nearest OSHA area or regional office listed at the end of this publication.

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A single, free copy of the following publications can be obtained from the U.S. Department of Labor, OSHA/OICA Publications, P.O. Box 37535, Washington, DC 20013-7535, (202) 693-1888, Fax (202) 693-2498. Enclose a self-addressed mailing label with your request.

*All About OSHA* - OSHA 2056

*Chemical Hazard Communication* - OSHA 3084

*Controlling Electrical Hazards* - OSHA 3075

*Ground Fault Protection on Construction Sites* - OSHA 3007

*Hearing Conservation* - OSHA 3074

The following publications are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, telephone (202) 512-1800, fax (202) 512-2250. Include GPO Order No. and make checks payable to the Superintendent of Documents. Visa or MasterCard are accepted.

*Hazard Communication - A compliance Kit* (OSHA 3104), GPO Order no. 929-016-0014706, \$18.00 (\$22.00 foreign).

*Hazard Communication* - Guidelines for Compliance (OSHA 3111), Order No. 029-016-00127-1. \$1.50.

*Job Safety and Health Quarterly* magazine, GPO Order Processing Code #5507, annual subscription \$10.00 (\$12.50 foreign; single copies, \$3.50 (\$4.38 foreign). Order from the U.S. Government Printing Office, Superintendent of Documents, P.O. Box 3710954, Pittsburgh, PA 15240-7954, Fax (202)512-2233.

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Drawer 20  
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Montpelier, VT 05260-3401  
(802) 828-2288

**Commissioner**

Virgin Islands Department  
of Labor  
2131 Hospital Street, Box 890  
Christiansted  
St. Croix, VI 00840-4666  
(809) 773-1994

**Commissioner**

Virginia Department of Labor  
and Industry  
Powers-Taylor Building  
13 South 13th Street  
Richmond, VA 23219  
(804) 786-2377

**Director**

Washington Department  
of Labor and Industries  
General Administration  
Building  
P.O. Box 44001  
Olympia, WA 98504-4001  
(360) 902-4200

**Administrator**

Workers' Safety, and Compen-  
sation Division (WSC)  
Herschler Building, 2nd Floor  
East  
122 West 25th Street  
Cheyenne, WY 82002  
(307) 777-7786

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<b>State</b> .....	<b>Telephone</b>
Alabama .....	(205) 348-7136
Alaska.....	(907) 264-4957
Arizona.....	(602) 542-5795
Arkansas.....	(501) 682-4522
California.....	(415) 972-8515
Colorado.....	(970) 491-6151
Connecticut.....	(860) 566-4550
Delaware.....	(302) 761-8219
District of Columbia .....	(202) 576-6339
Florida.....	(904) 488-3044
Georgia.....	(404) 894-2643
Guam.....	011(671) 475-0136
Hawaii.....	(808) 586-9100
Idaho.....	(208) 385-3283
Illinois.....	(312) 814-2337
Indiana.....	(317) 232-2688
Iowa.....	(515) 281-5352
Kansas.....	(913) 296-7476
Kentucky.....	(502) 564-6895
Louisiana.....	(504) 342-9601
Maine.....	(207) 624-6460
Maryland.....	(410) 333-4210
Massachusetts .....	(617) 727-3982
Michigan.....	(517) 332-8250(H)
.....	(517) 322-1809(S)
Minnesota.....	(612) 297-2393
Mississippi.....	(601) 987-3981
Missouri.....	(573) 751-3403
Montana.....	(406) 444-6418
Nebraska.....	(402) 471-4717
Nevada.....	(702) 486-5016
New Hampshire .....	(603) 271-2024
New Jersey.....	(609) 292-2424

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New Mexico.....	(505) 827-4230
New York.....	(518) 457-2481
North Carolina .....	919) 662-4644
North Dakota .....	(701) 221-5188
Ohio.....	(614) 644-2246
Oklahoma.....	(405) 528-1500
Oregon.....	(503) 378-3272
Pennsylvania .....	(412) 357-2561
Puerto Rico.....	(787) 754-2188
Rhode Island .....	(401) 277-2438
South Carolina .....	(803) 896-4300
South Dakota .....	(605) 688-4101
Tennessee.....	(615) 741-7036
Texas.....	(512) 440-3809
Utah.....	(801) 530-7606
Vermont.....	(802) 828-2765
Virginia.....	(804) 786-6359
Virgin Islands .....	(809) 772-1315
Washington.....	(360) 902-5638
West Virginia .....	(304) 558-7890
Wisconsin.....	(608)266-8579(H)
.....	(414) 521-5063(S)
Wyoming.....	(307) 777-7786

(H) - Health

(S) - Safety

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<b>Area .....</b>	<b>Telephone</b>
Albany, NY.....	(518) 464-4338
Albuquerque, NM.....	(505) 248-5302
Allentown, PA.....	(610) 776-0592
Anchorage, AK.....	(907) 271-5152
Appleton, WI .....	(414) 734-4521
Austin, TX.....	(512) 916-5783
Avenel, NJ .....	(908) 750-3270
Baltimore, MD .....	(410) 962-2840
Bangor, ME .....	(207) 941-8177
Baton Rouge, LA .....	(504) 389-0474
Bayside, NY .....	(718) 279-9060
Bellevue, WA .....	(206) 553-7520
Billings, MT .....	(406) 247-7494
Birmingham, AL .....	(205) 731-1534
Bismarck, ND.....	(701) 250-4521
Boise, ID .....	(208) 321-2960
Bowmansville, NY.....	(716) 684-3891
Braintree, MA .....	(617) 565-6924
Bridgeport, CT.....	(203) 579-5581
Calumet City, IL .....	(708) 891-3800
Carson City, NV .....	(702) 885-6963
Charleston, WV .....	(304) 347-5937
Cincinnati, OH .....	(513) 841-4132
Cleveland, OH .....	(216) 522-3818
Columbia, SC.....	(803) 765-5904
Columbus, OH.....	(614) 469-5582
Concord, NH .....	(603) 225-1629
Corpus Christi, TX .....	(512) 888-3420
Dallas, TX.....	(214) 320-2400
Denver, CO.....	(303) 844-5285
Des Plaines, IL .....	(708) 803-4800
Des Moines, IA .....	(515) 284-4794
Englewood, CO .....	(303) 843-4500
Erie, PA .....	(814) 833-5758

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Fort Lauderdale, FL.....	(305) 424-0242
Fort Worth, TX .....	(817) 428-2470
Frankfort, KY.....	(502) 227-7024
Harrisburg, PA .....	(717) 782-3902
Hartford, CT .....	(860) 240-3152
Hasbrouck Heights, NJ.....	(201) 288-1700
Guaynabo, PR .....	(787) 277-1560
Honolulu, HI .....	(808) 541-2685
Houston, TX .....	(281) 286-0583
Houston, TX .....	(281) 591-2438
Indianapolis, IN.....	(317) 226-7290
Jackson, MS .....	(601) 965-4606
Jacksonville, FL.....	(904) 232-2895
Kansas City, MO .....	(816) 483-9531
Lansing, MI .....	(517) 377-1892
Little Rock, AR .....	(501) 324-6291
Lubbock, TX .....	(806) 472-7681
Madison, WI .....	(608) 264-5388
Marlton, NJ .....	(609) 757-5181
Methuen, MA.....	(617) 565-8110
Milwaukee, WI.....	(414) 297-3315
Minneapolis, MN .....	(612) 664-5460
Mobile, AL .....	(334) 441-6131
Nashville, TN.....	(615) 781-5423
New York, NY .....	(212) 466-2482
Norfolk, VA .....	(757) 441-3820
North Aurora, IL .....	(630) 896-8700
Oklahoma City, OK.....	(405) 231-5351
Omaha, NE .....	(402) 221-3182
Parsippany, NJ.....	(201) 263-1003
Peoria, IL.....	(309) 671-7033
Philadelphia, PA .....	(215) 597-4955
Phoenix, AZ .....	(602) 640-2007
Pittsburgh, PA .....	(412) 395-4903
Portland, OR .....	(503) 326-2251
Providence, RI.....	(401) 528-4669

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Raleigh, NC .....	(919) 856-4770
Salt Lake City, UT .....	(801) 487-0073
Sacramento, CA .....	(916) 566-7470
San Diego, CA .....	(619) 557-2909
Savannah, GA .....	(912) 652-4393
Smyrna, GA .....	(404) 984-8700
Springfield, MA .....	(413) 785-0123
St. Louis, MO .....	(314) 425-4249
Syracuse, NY .....	(315) 451-0808
Tampa, FL .....	(813) 626-1177
Tarrytown, NY .....	(914) 524-7510
Toledo, OH .....	(419) 259-7542
Tucker, GA.....	(404) 493-6644
Westbury, NY .....	(516) 334-3344
Wichita, KS .....	(316) 269-6644
Wilkes-Barre, PA .....	(717) 826-6538
Wilmington, DE .....	(302) 573-6115

**U.S. Department of Labor  
Occupational Safety and Health Administration  
OSHA Regional Offices**

**Region I  
(CT,\* MA, ME, NH, RI, VT\*)**

JFK Federal Building  
Room E-340  
Boston, MA 02203  
Telephone: (617) 565-9860

**Region II  
(NJ, NY,\* PR,\* VI\*)**

201 Varick Street  
Room 670  
New York, NY 10014  
Telephone: (212) 337-2378

**Region III  
(DC, DE, MD,\* PA, VA,\* WV)**

Gateway Building, Suite 2100  
3535 Market Street  
Philadelphia, PA 19104  
Telephone: (215) 596-1201

**Region IV  
(AL, FL, GA, KY,\* MS, NC,\* SC,\* TN\*)**

Atlanta Federal Center  
61 Forsyth Street, S.W.  
Room 6T50  
Atlanta, GA 30303  
Telephone: (404) 562-2300

**Region V  
(IL, IN,\* MI,\* MN,\* OH, WI)**

230 South Dearborn Street  
Room 3244  
Chicago, IL 60604  
Telephone: (312) 353-2220

**Region VI  
(AR, LA, NM,\* OK, TX)**

525 Griffin Street  
Room 602  
Dallas, TX 75202  
Telephone: (214) 767-4731

**Region VII  
(IA,\* KS, MO, NE)**

City Center Square  
1100 Main Street, Suite 800  
Kansas City, MO 64105  
Telephone: (816) 426-5861

**Region VIII  
(CO, MT, ND, SD, UT,\* WY\*)**

Suite 1690  
1999 Broadway  
Denver, CO 80202-5716  
Telephone: (303) 391-5858

**Region IX  
(American Samoa, AZ,\* CA,\* Guam, HI,\* NV,\* Trust Territories of the Pacific)**

71 Stevenson Street  
Room 420  
San Francisco, CA 94105  
Telephone: (415) 744-6670

**Region X  
(AK,\* ID, OR,\* WA\*)**

1111 Third Avenue  
Suite 715  
Seattle, WA 98101-3212  
Telephone: (206) 553-5930

\*These states and territories operate their own OSHA-approved job safety and health programs (Connecticut and New York plans cover public employees only). States with approved programs must have a standard that is identical to, or at least as effective in protecting employees, as the federal standard.