


Other OSHA Standards that may apply:

- 1910.132 – Personal Protective Equipment
- 1910.133 – Eye and Face Protection
- 1910.134 – Respiratory Protection
- 1910.138 – Hand Protection
- 1910.145 – Accident Prevention Signs & Tags
History: OSHA Regulations Applicable to Labs

- Other OSHA Standards that may apply:
  - 1910.1200 – Hazard Communication
  - 1910.1048 – Formaldehyde Standard
  - 1910.1096 – Ionizing Radiation Standard
  - 1910.1405 – Occupational Exposure to Hazardous Chemicals in Laboratories

- OSH Act – Section 5(a)(1) the General Duty Clause.
Definitions

- **Hazard**: A condition or a set of circumstances that present a potential for harm. Hazards are divided into two broad categories:
  - Health hazards (cause occupational illnesses)
  - Safety hazards (cause physical harm - injuries)

- **Occupational Exposure**: Exposure which is or should be reasonably anticipated, to a hazard (e.g., an infectious agent) during the performance of a worker’s duties.
Horizontal versus Vertical Standards

- **Horizontal Standard** – a standard that applies to any employer in any industry where workers have occupational exposure to the hazard. Examples of horizontal standards are the Bloodborne Pathogens standard; the PPE standards; the Hazard Communications standard. Most standards are horizontal.

- **Vertical Standard** - a standard that applies only to an employer in a particular industry where workers have occupational exposure to the hazard. Examples of a vertical standard would be the Infectious Diseases (ID) standard that is being developed. The ID standard rule would focus on the healthcare and associated industries. Additional examples of vertical standards would be those that apply to the Longshoring or Construction industries.
Performance versus Specification Standards

Performance-based standards – Standards that give the employer the latitude to determine which specific methods to use to mitigate employee exposures to hazards. Example: The BBP standard is performance based and, as such, the employer has the latitude to determine which PPE best suits the workplace environment and the anticipated occupational exposure. Most standards are performance-based.

Specification standards – Standards that restrict the employer to use specific methods to mitigate employee exposures to hazards or to reduce a hazard to a specific level. Many chemical standards are specification standards; they specify a permissible exposure limit (PEL).
OSHA Standards Most Cited for Violations in Labs 01/01/2011 – 05/01/2018

- 29 CFR 1910.1030 - Bloodborne Pathogens
- 29 CFR 1910.1450 - Occupational Exposure to Hazardous Chemicals in Laboratories (Laboratory Standard)
- 9 CFR 1910.134 - Respiratory Protection
- 29 CFR 1910.1048 – Formaldehyde
- 29 CFR 1910.132 - PPE - General Requirements
- 29 CFR 1910.133 - PPE - Eye and Face Protection
Paragraph of standard most cited:

- (c) Exposure control
- (g) Communication of hazards to employees
- (d) Methods of compliance
- (f) Hepatitis B vaccination and post-exposure evaluation and follow-up
- (h) Recordkeeping

The Hazard Communication Standard (HCS) is now aligned with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This update to the Hazard Communication Standard (HCS) will provide a common and coherent approach to classifying chemicals and communicating hazard information on labels and safety data sheets. This update will also help reduce trade barriers and result in productivity improvements for American businesses that regularly handle, store, and use hazardous chemicals while providing cost savings for American businesses that periodically update safety data sheets and labels for chemicals covered under the hazard communication standard.

Hazard Communication Standard

In order to ensure chemical safety in the workplace, information about the identities and hazards of the chemicals must be available and understandable to workers. OSHA’s Hazard Communication Standard (HCS) requires the development and dissemination of such information:

- Chemical manufacturers and importers are required to evaluate the hazards of the chemicals they produce or import, and prepare labels and safety data sheets to convey the hazard information to their downstream customers;
- All employers with hazardous chemicals in their workplaces must have labels and safety data sheets for their exposed workers.

https://www.osha.gov/dsg/hazcom/index.html
Paragraph of standard most cited:

- (h) Employee information and training
- (e) Written hazard communication program
- (f) Labels and other forms of warning
- (g) Safety data sheets
Occupational Exposure to Hazardous Chemicals in Laboratories (Lab Standard) – 1910.1450

https://www.osha.gov/SLTC/laboratories/index.html
Lab Standard 1910.1450 - Most Cited Paragraphs of Standard 01/01/2011 – 05/01/2018

Paragraph of standard most cited:

- (e) Chemical hygiene plan
- (f) Employee information and training
- (d) Employee exposure determination
- (g) Medical consultation and medical examination
Overview

An estimated 5 million workers are required to wear respirators in 1.3 million workplaces throughout the United States. Respirators protect workers against insufficient oxygen environments, harmful dusts, fogs, smokes, mists, gases, vapors, and sprays. These hazards may cause cancer, lung impairment, diseases, or death. Compliance with the OSHA Respiratory Protection Standard could avert

Paragraph of standard most cited:

- (c) Respiratory protection program
- (e) Medical evaluation
- (f) Fit testing
- (k) Training and information
Personal Protective Equipment (PPE) Standards – 1910.132, .133, .138

https://www.osha.gov/SLTC/personalprotectiveequipment/index.html
Formaldehyde is common to the chemical industry. International production was over 46 billion pounds in 2004, according to the International Agency for Research on Cancer (IARC). It is well known for its strong and persistent odor.
OSHA Guidance for Laboratory Safety

  - Chemical Hazards
  - Biological Hazards
  - Physical Hazards
  - General Safety Hazards
The Occupational Safety and Health Administration's revised recordkeeping rule includes two key changes:

First, the rule updates the list of industries that are exempt from the requirement to routinely keep OSHA injury and illness records, due to relatively low occupational injury and illness rates. The previous list of industries was based on the old Standard Industrial Classification (SIC) system and injury and illness data from the Bureau of Labor Statistics (BLS) from 1996, 1997, and 1998. The new list of industries that are exempt from routinely keeping OSHA injury and illness records is based on the North American Industry Classification System (NAICS) and injury and illness data from the Bureau of Labor Statistics (BLS) from 2007, 2008, and 2009. Note: The new rule retains the exemption for any employer with ten or fewer employees, regardless of their industry classification, from the requirement to routinely keep records.

Second, the rule expands the list of severe work-related injuries that all covered employers must report to OSHA. The revised rule retains the current requirement to report all work-related fatalities within 8 hours and adds the requirement to report all work-related in-patient hospitalizations, amputations and loss of an eye within 24 hours to OSHA.

Establishments located in States under Federal OSHA Jurisdiction must begin to comply with the new requirements on January 1, 2015. Establishments located in states that operate their own safety and health programs (State Plan States) should check with their state plan for the implementation date of the new requirements. OSHA encourages the states to implement the new coverage provisions on 1/1/2015, but some may not be able to meet this tight deadline.

The final rule will allow OSHA to focus its efforts more effectively to prevent fatalities and serious work-related injuries and illnesses. The final rule will also improve access by employers, employees, researchers and the public to information about workplace safety and health and increase their ability to identify and abate serious hazards.

As of January 1, 2015, all employers must report:

- All work-related fatalities within 8 hours.
- All work-related inpatient hospitalizations, all amputations and all losses of an eye within 24 hours.

You can report to OSHA by:

- Calling OSHA's free and confidential number at 1-800-321-OSHA (6742).
- Calling your closest Area Office during normal business hours.
- Using the new online form.

Employers under Federal OSHA's jurisdiction must begin reporting by January 1. Establishments in a state with a
As of January 1, 2015, however, all employers must report:

1. All work-related fatalities within 8 hours.
2. All work-related in-patient hospitalizations, all amputations and all losses of an eye within 24 hours.

Employers with 10 or less employees and those within certain NAICS codes are not required to keep OSHA injury and illness records. Examples of NAICS codes exempted:

NAICS 5417 - Scientific Research and Development Services
NAICS 6113 - Colleges, Universities, and Professional Schools
NAICS 6215 - Medical and Diagnostic Laboratories

As of January 1, 2015, however, all employers must report:

1. All work-related fatalities within 8 hours.
2. All work-related in-patient hospitalizations, all amputations and all losses of an eye within 24 hours.
OSHA State Plans

Twenty-eight states and territories operate their own occupational safety and health State Plans approved by OSHA and may have different and/or additional requirements. A list of State Plans is available at: [http://www.osha.gov/dcsp/osp/](http://www.osha.gov/dcsp/osp/).

Some State Plans have additional standards that may apply to laboratories, such as:

**The California OSHA Aerosol Transmissible Diseases Standard promulgated in 2009.**

Laboratories operating within State Plans are still required to follow state-specific regulations that are applicable to work within the laboratory.
Twenty-six states, Puerto Rico, and the Virgin Islands have OSHA-approved State Plans.

Twenty-two State Plans (21 states and one U.S. territory) cover both private and state and local government workplaces (including laboratories). [Blue]

The remaining six State Plans (five states and one U.S. territory) cover state and local government workplaces (including laboratories) only. [Gray]
Twenty-four states operate under federal OSHA oversight.

- State and local government laboratories do not have OSH Act protections except in the state plan states.

- All state and local government laboratories must comply with state and local regulations that are applicable to laboratories.

- Private laboratories have OSH Act protections in all states and territories.
Whistleblower Protection Programs

THE WHISTLEBLOWER Protection Programs

File a COMPLAINT

File a complaint if your employer has retaliated against you for exercising your rights as an employee. In states with approved State OSHA Plans, employees may file a complaint under the OSH Act with both the State and Federal OSHA. Under the other federal laws, a complaint

Know Your RIGHTS

OSHA’s whistleblower statutes protect you from retaliation. An employer cannot retaliate by taking "adverse action" against workers who report injuries, safety concerns, or other protected activity.

Worker PROTECTIONS

Since passage of the OSH Act in 1970, Congress has expanded OSHA’s whistleblower authority to protect workers from retaliation under twenty-two federal laws. Complaints must be reported to OSHA within set timeframes following the retaliatory action, as prescribed by each law.

https://www.whistleblowers.gov/
Safe and Sound Campaign

Explore the Elements of Effective Safety and Health Programs

Register now for a free webinar on April 25th at 2pm EDT

Safe workplaces are sound businesses.

Join the Safe +
Join us for Safe + Sound Week, August 13-19, 2018

What Is Safe + Sound Week?
A nationwide event to raise awareness and understanding of the value of safety and health programs that include management leadership, worker participation, and a systematic approach to finding and fixing hazards in workplaces.

Why Participate?
Safe workplaces are sound businesses. Successful safety and health programs can proactively identify and manage workplace hazards before they cause injury or illness, improving sustainability and the bottom line. Participating in Safe + Sound Week can help get your program started or energize an existing one.

Who Is Encouraged to Participate?
Organizations of any size or in any industry looking for an opportunity to show their commitment to safety to
In 2017, OSHA initiated the Safe and Sound Campaign.

- Basic premise: Making workplaces safe is sound business.
- Nationwide campaign raises awareness and understanding of the value of safety and health programs that include management, worker participation, and a systematic approach to finding and fixing hazards in workplaces.
- Successful safety and health programs can proactively identify and manage workplace hazards before they cause injury or illness, improving sustainability and the financial bottom line.
The Voluntary Protection Programs (VPP) recognize employers and workers in the private industry and federal agencies who have implemented effective safety and health management systems and maintain injury and illness rates below national Bureau of Labor Statistics averages for their respective industries. In VPP, management, labor, and OSHA work cooperatively and proactively to prevent fatalities, injuries, and illnesses through a system focused on: hazard prevention and control; worksite analysis; training; and management commitment and worker involvement. To participate, employers must submit an application to OSHA and undergo a rigorous onsite evaluation by a team of safety and health professionals. Union support is required for applicants represented by a bargaining unit. VPP participants are re-evaluated every three to five years to remain in the programs. VPP participants are exempt from OSHA programmed inspections while they maintain their VPP status.

What’s New
- NEW: Chambers Cogeneration, L.P., Carney’s Point, NJ
- NEW: Bartell Machinery Systems LLC, Rome, NY
- NEW: Rocky Mountain Arsenal Sites, Denver, Co
- 309th Electronics Maintenance Group, Hill Air Force Base, UT
OSHA Voluntary Protection Program

- VPP recognizes employers with effective safety and health programs
- Management, Labor and OSHA work together in cooperative, proactive development of programs
- Employer submits application to OSHA and undergoes rigorous onsite evaluation
- Re-evaluation of program every 3-5 years
- VPP participants exempt from OSHA programmed inspections while maintaining VPP status
OSHA Safety and Health Achievement Recognition Program (SHARP)

The program recognizes small business employers who have used OSHA's On-Site Consultation Program services and operate an exemplary safety and health programs. Acceptance of your worksite into SHARP from OSHA is an achievement of status that singles you out among your business peers as a model for worksite safety and health.

https://www.osha.gov/dcsp/smallbusiness/sharp.html
OSHA Safety and Health Achievement Recognition Program (SHARP)

- Recognizes excellence in small business’ safety and health programs
- Recognizes small business employers who have used OSHA’s On-site Consultation Program* services and who operate an exemplary injury and illness prevention program.

* OSHA’s On-site Consultation Program offers free and confidential safety and occupational health advice to small and medium-sized businesses in all states across the country with priority given to high-hazard worksites.
On-Site Consultation

https://www.osha.gov/dcsp/smallbusiness/consult.html
Questions?