

U.S. Department of Labor Occupational Safety and Health Administration

OSHA 3162 2000 (Reprinted)



This informational booklet is intended to provide a generic, non-exhaustive overview of a particular standards-related topic. This publication does not itself alter or determine compliance responsibilities, which are set forth in OSHA standards themselves, and the Occupational Safety and Health Act. Moreover, because interpretations and enforcement policy may change over time, for additional guidance on OSHA compliance requirements, the reader should consult current administrative interpretations and decisions by the Occupational Safety and Health Review Commission and the courts.

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U.S. Department of Labor Alexis M. Herman, Secretary

Occupational Safety and Health Administration Charles N. Jeffress, Assistant Secretary

OSHA 3162 2000 (Reprinted)

The Occupational Safety and Health Administration (OSHA) receives many inquiries about the "medical surveillance" provisions of its standards. This guide is a quick reference to help you locate and implement the screening and surveillance requirements of the OSHA standards in *Title 29 of the Code of Federal Regulations (29 CFR)*.

The guide provides a general overview of OSHA requirements, but is not a legal authority for compliance with them. For full details of specific compliance requirements, please consult the appropriate OSHA standard in the *CFR*. You can access the medical surveillance provisions of the OSHA standards on the Internet at www.osha.gov.

#### NOTE TO EMPLOYERS:

Please remember, more than one standard may apply in your workplace. If so, you must meet all the screening and surveillance requirements for all the standards that apply. For further information, contact your Regional OSHA office listed at the end of this publication and on OSHA's home page on the Internet at www.osha.gov.

<b>Glossary</b> 1
A Guide to OSHA Standards2
Acrylonitrile
Arsenic
Asbestos (General Industry) 4
Asbestos (Construction and Shipyards)5
Benzene 6
Bloodborne Pathogens 7
1, 3-Butadiene 8
Cadmium9
Carcinogens (Suspect) 10
Coke Oven Emissions
Compressed Air Environments 12
Cotton Dust
1,2-Dibromo-3-chloropropane14
Ethylene Oxide
Formaldehyde
HAZWOPER17
Hazardous Chemicals in Laboratories 18
Lead
Methylenedianiline
Methylene Chloride
Noise
Respiratory Protection
Vinyl Chloride
Footnotes
OSHA Regional Offices

BP - blood pressure

**BUN** - blood urea nitrogen

CBC - complete blood count

FEF - forced expiratory flow

FEV<sub>1</sub> - forced expiratory volume one second

FSH - follicle stimulating hormone

FVC - forced vital capacity

**HAZWOPER -** Hazardous Waste Operations and Emergency Response

HBV - hepatitis B virus

LH - luteinizing hormone

MDA - methylenedianiline

PPE - personal protective equipment

**PHS** or **USPHS** - United States Public Health Service

**SGOT -** serum glutamic oxalacetic transaminase

**SGPT -** serum glutamic pyruvic transaminase

**ZPP** - zinc protoporphyrin

Standard Requirements	
	ylonitrile 926.1145/1915.1045*
Pre-placement exam	Yes¹
Periodic exam	Yes—annual <sup>1</sup>
Emergency/exposure examination and tests	Yes
Termination exam	Yes—if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Respiratory, gastrointestinal,¹ thyroid, skin, neurological (peripheral and central)
Work and medical history	Required for all exams <sup>2</sup>
Chest x-ray	Yes
Pulmonary function test (PFT)	No
Other required tests	Fecal occult blood <sup>1</sup>
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician
Medical removal plan	No

Standard Requirements  Arsenic (Inorganic) 1910.1018(n)/1926.1118/1915.1018*	
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	Yes
Termination exam	Yes—if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Skin, nasal
Work and medical history	Required for all exams <sup>2</sup> with focus on respiratory symptoms includes smoking history
Chest x-ray	Yes
Pulmonary function test (PFT)	No
Other required tests	No
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased	Yes—by physician

No

risk

Medical removal plan

Standard Requirements	
Asbestos (General Industry) 1910.1001(I)	
Pre-placement exam	Yes <sup>1, 3</sup>
Periodic exam	Yes—annual <sup>1</sup>
Emergency/exposure examination and tests	No
Termination exam	Yes—within ±30 days of termination
Examination includes special emphasis on these body systems	Respiratory, cardiovascular, gastrointestinal
Work and medical history	Required for all exams <sup>2</sup> ; standardized form required; see standard, Appendix D
Chest x-ray	Yes¹—B reader, board eligible/ certified radiologist or physician with expertise in pneumoconioses required; see standard, Appendix E for x-ray interpretation and classification requirements
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub>
Other required tests	No
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician; includes informing employee of increased risk of lung cancer from combined effect of smoking and asbestos exposure
Medical removal plan	No

Standard Requirements	
	truction and Shipyards) 01(m)/1915.1001
Pre-placement exam	Yes <sup>1,3</sup>
Periodic exam	Yes — annual <sup>1</sup> or more frequently if determined by physician
Emergency/exposure examination and tests	No
Termination exam	No
Examination includes special emphasis on these body systems	Pulmonary and gastrointestinal
Work and medical history	Required for all exams <sup>2</sup> ; special emphasis on pulmonary, cardiovascular, gastrointestinal; standardized form required; see standard, Appendix D
Chest x-ray	Yes <sup>1</sup> — B reader, board eligible/ certified radiologist or physician with expertise in pneumoconioses required; see standard, Appendix E for x-ray interpretation and classification requirements
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub>
Other required tests	No
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee

Yes—by physician; includes

informing employee of increased risk of lung cancer from combined

effect of smoking and asbestos

exposure

No

**Employee counseling** 

conditions of increased

Medical removal plan

re: exam results,

risk

Standard Requirements			
	Benzene 1910.1028(i)/1926.1128/1915.1028*		
Pre-placement exam	Yes <sup>1,3,4</sup>		
Periodic exam	Yes—annual <sup>1, 4</sup>		
Emergency/exposure examination and tests	Yes <sup>1,4</sup> —includes urinary phenol test		
Termination exam	No		
Examination includes special emphasis on these body systems	Hemopoietic; add cardiopulmonary if respiratory protection used at least 30 days/ year, (initially, then every 3 years)		
Work and medical history	Required for initial and periodic exams (pre-placement exam requires special history) <sup>2</sup>		
Chest x-ray	No		
Pulmonary function test (PFT)	Initially and every 3 years if respiratory protection used 30 days/year; specific tester requirements		
Other required tests	CBC, differential, other specific blood tests; repeated as required; see standard		
Evaluation of ability to wear a respirator	Yes—if respirators are used		
Additional tests if deemed necessary	Yes		
Written medical opinion	Yes—physician to employer; employer to employee		
Employee counseling re: exam results, conditions of increased risk	Yes—by physician		
Medical removal plan	Yes		

Standard	Requirements
	ne Pathogens 0.1030(f)
Pre-placement exam	No—must offer Hepatitis B (HBV) vaccine unless already immune or vaccine contraindicated
Periodic exam	No
Emergency/exposure examination and tests	Specific post-exposure monitoring for employee and source; HBV vaccine; see standard
Termination exam	No
Examination includes special emphasis on these body systems	No
Work and medical history	No
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Yes—post-exposure incident; follow US Public Health Service (USPHS) post-exposure protocols
Evaluation of ability to wear a respirator	No
Additional tests if deemed necessary	Yes—for post-exposure incident; follow USPHS post-exposure protocols
Written medical opinion	Yes—licensed health care professional to employer; employer to employee
Employee counseling re: exam results,	Yes—by licensed health care professional; counseling re: HBV vaccine and post-exposure
conditions of increased risk	followup; see standard

Standard Requirements		
1, 3-Butadiene 1910.1051(k)/1926.1151*		
Pre-placement exam	Yes <sup>1, 3, 4</sup>	
Periodic exam	Yes <sup>1, 4</sup>	
Emergency/exposure examination and tests	Yes <sup>1,4</sup> —within 48 hours of exposure	
Termination exam	Yes <sup>4</sup> —if 12 months have elapsed since last exam	
Examination includes special emphasis on these body systems	Liver, spleen, lymph nodes, and skin	
Work and medical history	Required annually and for all examinations <sup>2</sup> ; standardized form or equivalent; includes comprehensive occupational and health history; see standard, Appendices F and C	
Chest x-ray	No	
Pulmonary function test (PFT)	No	
Other required tests	CBC with differential and platelet count, annually; also within 48 hrs after exposure in an emergency situation and repeated monthly for 3 more months	
Evaluation of ability to wear a respirator	Yes—if respirators are used	
Additional tests if deemed necessary	Yes	
Written medical opinion	Yes—physician or other licensed health care professional to employer and employee	
Employee counseling re: exam results, conditions of increased risk	Yes—by physician or other licensed health care professional	
Medical removal plan	No	

Standard	d Requirements
Cadmium 1910.1027(I)/1926.1127/1915.1027/1928.1027*	
Pre-placement exam	Yes <sup>1, 3, 4</sup>
Periodic exam	Yes <sup>1,4</sup>
Emergency/exposure examination and tests	Yes <sup>1,4</sup>
Termination exam	Yes <sup>3</sup> —see standard for time frame and other specifics
Examination includes special emphasis on these body systems	Respiratory, cardiovascular (BP), urinary, and for males over 40— prostate palpation <sup>1</sup>
Work and medical history	Required for preplacement and periodic exams <sup>2</sup> ; standardized form required
Chest x-ray	Yes
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub>
Other required tests	Annually,¹ cadmium in urine, beta-2 microglobulin in urine, cadmium in blood, CBC, BUN, serum creatinine, urinalysis; see standard
Evaluation of ability to wear a respirator	Yes
Additional tests if	Ves

re: exam results, conditions of increased explanation of results, treatment, and diet, and discussion of risk decisions re: medical removal;

Additional tests if Yes Yes—physician to employer; employer to employee

**Employee counseling** 

Medical removal plan

deemed neccessary Yes—by physician; includes

Written medical opinion

see standard for details

Yes

Standard Requirements	
Carcinogens (Suspect) 1910.1003-1016(g)/1926.1103/1915.1003-1016*	
Pre-placement exam	Yes
Periodic exam	Yes—annual
Emergency/exposure examination and tests	Yes¹—special medical surveillance begins within 24 hours
Termination exam	No
Examination includes special emphasis on these body systems	Exam includes determination for increased risk (e.g., treatment with steroids or cytotoxic agents, reduced immunological competence, pregnancy or cigarette smoking)
Work and medical history	Required for all examinations; includes family and occupational history, genetic and environmental factors
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	No
Evaluation of ability to wear	Yes—as specified in the respiratory protection standard 1910.134(e), if respirators are used
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer
Employee counseling re: exam results, conditions of increased risk	No
Medical removal plan	No

Standar	d Requirements
	ven Emissions 10.1029(j)
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	No
Termination exam	Yes—if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Skin
Work and medical history	Required for all exams <sup>2</sup> ; includes smoking history and presence and degree of respiratory symptoms
Chest x-ray	Yes
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub>
Other required tests	Weight, urine cytology, urinalysis for sugar, albumin, hematuria
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed neccessary	Yes—see standard, Appendix B
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician; also, employer must inform employee of possible health consequences if employee refuses any required medical exam

Medical removal plan

No

Standard Requirements	
Compressed Air Environments 1926.803(b)	
Pre-placement exam	Yes
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	No
Termination exam	No
Examination includes special emphasis on these body systems	Not specified
Work and medical history	No
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	No
Evaluation of ability to wear a respirator	No
Additional tests if deemed necessary	No
Written medical opinion	No
Employee counseling re: exam results, conditions of increased risk	No
Medical removal plan	No

Standar	l Requirements
Co	tton Dust 10.1043(h)
Pre-placement exam	Physical exam not specified; other tests required
Periodic exam	Physical exam not specified; other tests required <sup>1,4</sup>
Emergency/exposure examination and tests	No
Termination exam	No
Examination includes special emphasis on these body systems	Not specified
Work and medical history	Medical history; standardized questionnaire required; see standard, Appendix B-1 <sup>1,2,4</sup>
Chest x-ray	No
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub> , FEV <sub>1</sub> /FVC Employees with specific abnormalities are referred to specialists <sup>1,4,5</sup>
Other required tests	No
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	No
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician re: results of exam and any medical conditions requiring further examination or treatment
Medical removal plan	Yes—for inability to wear a respirator (6 months)

	Requirements
1,2-Dibromo-3-chloropropane 1910.1044(m)/1926.1144/1915.1044*	
Pre-placement exam	Yes
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	Yes—male reproductive; repeat in 3 months
Termination exam	No
Examination includes special emphasis on these body systems	Reproductive, genitourinary; see standard for details
Work and medical history	Required for all exams <sup>2</sup> ; includes reproductive history; see standard Appendix C
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Sperm count, FSH, LH, Total estrogen (females); see standard, Appendix C for guidelines
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician
Medical removal plan	No

Standard Requirements	
Ethylene Oxide 1910.1047(i)/1926.1147*	
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes—annual <sup>1</sup>
Emergency/exposure examination and tests	Yes <sup>1</sup>
Termination exam	Yes <sup>1</sup>
Examination includes special emphasis on these body systems	Pulmonary, skin, neurologic, hematologic, reproductive, eyes
Work and medical history	Required for all exams; includes reproductive history and special emphasis on some body systems; see standard
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	CBC, white cell count with differential, hematocrit, hemoglobin, red cell count; if requested by employee, pregnancy testing and fertility testing (female/male) will be added to the exam as deemed appropriate by physician
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased	Yes—by physician

No

risk

Medical removal plan

Standard Requirements	
Formaldehyde 1910.1048(I)/1926.1148/1915.1048*	
Pre-placement exam	Yes <sup>1, 4</sup>
Periodic exam	Yes <sup>1,4</sup>
Emergency/exposure examination and tests	Yes <sup>4</sup>
Termination exam	No
Examination includes special emphasis on systems these body	Evidence of irritation or sensitization of skin, respiratory system, eyes; shortness of breath
Work and medical history	Required for all exams <sup>2</sup> ; questionnaire required; see standard, Appendix D
Chest x-ray	No
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub> , FEF should be evaluated if respiratory protection is used
Other required tests	No
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician; includes information on whether medical conditions were caused by past exposures or emergency exposures
Medical removal plan	Yes

Standard	d Requirements
HAZWOPER 1910.120(f)/1926.65*	
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes—annually or at physician's discretion <sup>1</sup>
Emergency/exposure examination and tests	Yes <sup>1</sup>
Termination exam	Yes—if no exam within 6 months of termination/reassignment
Examination includes special emphasis on these body systems	Determined by physician; see standard, Appendix D, reference 10 for guidelines
Work and medical history	Yes—with emphasis on symptoms related to handling hazardous substances and health hazards, fitness for duty and ability to wear PPE <sup>2</sup>
Chest x-ray	No—unless determined by physician
Pulmonary function test (PFT)	No—unless determined by physician
Other required tests	No—unless determined by physician
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results,	Yes—by physician

No

conditions of increased

Medical removal plan

risk

Standard Requirements	
Hazardous Chemicals in Laboratories 1910.1450(g)	
Pre-placement exam	When required by other standards
Periodic exam	When required by other standards
Emergency/exposure examination and tests	Yes <sup>1</sup>
Termination exam	No
Examination includes special emphasis on these body systems	Not specified
Work and medical history	When required by other standards
Chest x-ray	When required by other standards
Pulmonary function test (PFT)	When required by other standards
Other required tests	When required by other standards
Evaluation of ability to wear a respirator	Yes—when required by other standards
Additional tests if deemed necessary	When required by other standards
Written medical opinion	Yes—physician to employer
Employee counseling re: exam results, conditions of increased risk	Yes—by physician
Medical removal plan	No

Standard	d Requirements
1910.1	Lead 025(j)/1926.62*
Pre-placement exam	Yes <sup>1,4</sup> except in construction industries; construction requires initial blood tests only
Periodic exam	Yes <sup>1, 4</sup>
Emergency/exposure examination and tests	Yes <sup>1, 4</sup>
Termination exam	No
Examination includes special emphasis on these body systems	Teeth, gums, hematologic, gastro- intestinal, renal, cardiovascular (BP), neurological; pulmonary status if respiratory protection used
Work and medical history	Required for all exams <sup>2</sup> ; includes reproductive history, past lead exposure, both work/non-work, and history of specific body systems; see standard
Chest x-ray	No
Pulmonary function test (PFT)	No—unless deemed necessary by physician
Other required tests	Hemoglobin, hematocrit, ZPP, BUN, serum creatinine, urinalysis with micro, blood-lead levels, peripheral smear morphology, red cell indices <sup>1,5</sup> ; if requested by employee, pregnancy testing and fertility testing (female/male)
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician; includes advising the employee of any medical condition, occupational or non-occupational, requiring further medical examination or treatment

treatment

Yes

Medical removal plan

Standard Requirements	
Methylenedianiline 1910.1050(m)	
Pre-placement exam	Yes <sup>1, 3, 4</sup>
Periodic exam	Yes—annual <sup>1, 4</sup>
Emergency/exposure examination and tests	Yes <sup>1, 4</sup>
Termination exam	No
Examination includes special emphasis on these body systems	Skin, hepatic
Work and medical history	Required for all examinations <sup>2</sup> ; includes past work with MDA and other specific items; see standard
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Liver function tests, urinalysis
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician
Medical removal plan	Yes

Standard Requirements  Methylene Chloride 1910.1052(j)/1926.1152*	
Periodic exam	Yes <sup>1, 4</sup>
Emergency/exposure examination and tests	Yes4—see standard for specifics
Termination exam	Yes—if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Lungs, cardiovascular (including BP and pulse), liver, nervous, skin; extent of exam determined by examiner based on employee's health status, work, and medical history
Work and medical history	Required for all exams; example of work and medical history form provided in standard, Appendix B
Chest x-ray	No
Pulmonary function	No—unless deemed necessary by physician or other licensed health care professional
Other required tests	Laboratory surveillance may include tests as determined by examiner including "before and after shift tests"; see standard, Appendix B
Evaluation of ability to wear a respirator	Yes—as specified under the respiratory protection standard 1910.134(e)
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician or other licensed health care professional to employer and employee
Employee counseling re: exam results, conditions of increased risk	Yes—by physician or other licensed health care professional

Yes

Medical removal plan

Standard Requirements	
Noise 1910.95(g)/1926.52 <sup>†</sup>	
Pre-placement exam	No physical exam but audiometric testing required
Periodic exam	No physical exam but audiometric testing required
Emergency/exposure examination and tests	No
Termination exam	No physical exam but audiometric testing required
Examination includes special emphasis on these body systems	No
Work and medical history	No
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Initial and annual audiometric testing <sup>1, 4, 5</sup> ; see standard re: specific qualifications for the test administrator
Evaluation of ability to wear a respirator	No
Additional tests if deemed necessary	Yes
Written medical opinion	No
Employee counseling re: exam results, conditions of increased risk	Yes—if standard threshold shift or suspected ear pathology
Medical removal plan	No

Standard	Requirements
Respiratory Protection 1910.134(e)/1926.103*	
Pre-placement exam	Evaluation questionnaire or exam; followup exam when required <sup>5</sup>
Periodic exam	Yes—in specific situations <sup>5</sup>
Emergency/exposure examination and tests	No
Termination exam	No
Examination includes special emphasis on these body systems	Yes <sup>5</sup> —see standard, Appendix C
Work and medical history	Yes²—see standard, Appendix C
Chest x-ray	As determined by physician or other licensed health care professional
Pulmonary function test (PFT)	As determined by physician or other licensed health care professional
Other required tests	As determined by physician or other licensed health care professional
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes—physician or other licensed health care professional to employer and employee
Employee counseling re: exam results, conditions of increased	Yes—by physician or other licensed health care professional

No

risk

Medical removal plan

Standard Requirements		
	Vinyl Chloride 1910.1017(k)/1926.1117*	
Pre-placement exam	Yes <sup>1</sup>	
Periodic exam	Yes <sup>1</sup>	
Emergency/exposure examination and tests	Yes	
Termination exam	No	
Examination includes special emphasis on these body systems	Special attention to detecting enlargement of the liver, spleen or kidneys, or dysfunction of these organs and abnormalities in skin, connective tissue, and pulmonary system; see standard, Appendix A	
Work and medical history	Required for initial and periodic exams <sup>2</sup> ; includes alcohol intake, history of hepatitis, exposure to hepatotoxic agents, blood transfusions, hospitalizations, and work history	
Chest x-ray	No	
Pulmonary function test (PFT)	No	
Other required tests	Blood test for total bilirubin, alkaline phosphatase, SGOT, SGPT and gamma glustamyl transpeptidase	
Evaluation of ability to wear a respirator	Yes	
Additional tests if deemed necessary	Yes	
Written medical opinion	Yes—physician to employer; employer to employee	
Employee counseling re: exam results, conditions of increased risk	No	
Medical removal plan	Yes	

- <sup>1</sup> Pre-placement and periodic examinations are dependent upon specific factors cited in the standard such as airborne concentrations of the substance and/or years of exposure, biological indices, age of employee, amount of time exposed per year. In addition, some standards require periodic exams to be conducted at varying time intervals. Refer to standard for complete details.
- <sup>2</sup> Standard requires medical and work history focused on special body systems, symptoms, personal habits, and/or specific family, environmental or occupational history. Refer to standard for complete details.
- <sup>3</sup> No examination required if previous examination done within specified time frame (e.g., 6 months or 12 months) and provisions of standard met. Refer to standard for details.
- <sup>4</sup> Additional physician review: Some standards have provisions for referring employees with abnormalities to a specialist as deemed necessary by examiner. Other standards have provisions for multiple physician review. See specific standard for details.
- <sup>5</sup> Standard requires specific protocol. See standard for details.
- \*These Maritime and Construction standards are identical to 29 CFR 1910, General Industry standards.
- †1926.52 requires an effective and continued hearing conservation program. OSHA has interpreted this to include audiograms when feasible. See letter of interpretation dated August 4, 1992.

#### 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)

The Curtis Center-Suite 740 West 170 S. Independence Mall West Philadelphia, PA 19106-3309

Telephone: (215) 861-4900

#### Region IV

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

Atlanta Federal Center

61 Forsyth Street, SW, 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\*) 1999 Broadway, Suite 1690 Denver, CO 80202-5716 Telephone: (303) 844-1600

Region IX (American Samoa, AZ,\* CA,\* Guam, HI,\* NV,\* Trust Territories of the Pacific) 71 Stevenson Street 4th Floor San Francisco, CA 94105 Telephone: (415) 975-4310

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 OSHAapproved 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 as, the federal standard.





# CAPITAL AREA FIRE CHIEFS ASSOCIATION

# **Hazardous Materials Response Teams**



#### To The Health Care Provider:

This person is a firefighter who will be working on one of the Capital Area Hazardous Materials Teams. In accordance with OSHA Standards and guidelines established by the Capital Area Fire Chiefs, this person should have a complete medical examination that contains at a minimum:

- Medical and Work History with emphasis on symptoms related to the handling of hazardous substances and health hazards;
- □ Fitness for duty including the ability to wear personal protective clothing under extreme heat conditions;
- Evaluation of the ability to wear a respirator;
- □ Lab tests to include: CBC, Blood Chemistry, Heavy Metals Screen, Urinalysis and Chest X-ray.
- □ Vision, hearing, and pulmonary function testing; and,
- Any other tests determined to be needed to assess this individual.

As a firefighter, this person is expected to perform a full range of difficult tasks associated with all aspects of firefighting. The individual is expected to perform those tasks while wearing bulky Personal Protective Equipment, (PPE), and Self-Contained Breathing Apparatus, (SCBA).

This person should provide a questionnaire to the physician that has been completed in accordance with CFR 1910.134, Appendix C. This questionnaire is designed to aide in evaluation of fitness to wear a respirator.

Provision of specific medical information should be made to the individual's employer, not to the Capital Area Fire Chiefs. Because of confidentiality, we also ask that "Summary of Findings", (sample attached), be issued that provides a statement to the effect that this person can or should not perform work as a firefighter and/or hazardous materials technician. Any limitations recommended by the physician should also be entered on the letter or form.

Copies of OSHA's Standard 29 CFR 1910.120 and its appendices are available upon request.

Thank you for your cooperation!

Capital Area Fire Chiefs Association Hazardous Materials Advisory Board





# CAPITAL AREA FIRE CHIEFS ASSOCIATION

# **Hazardous Materials Response Team**



### **OSHA RESPIRATOR MEDICAL EVALUATION QUESTIONNAIRE**

#### To The Employee:

Can v	ou read?	Check one:	Yes	No
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You must be allowed to complete this questionnaire during normal working hours, or at a time and place convenient to you. To maintain confidentiality, your employer or supervisor must not look at or review your answers, and your employer must tell you how to deliver this questionnaire to the health care professional who will review it.

**Part A. Section 1. (Mandatory)** Every employee who has been selected to use any type of respirator must provide the following information. (Please Print Answers).

Today's Date:
Your Name:
Your Age ( to the nearest year):
Sex (Check One): Male Female
Your height:ftin.
Your weight:lbs.
Your job title:
A phone number where you can be reached by the health care professional who reviews this questionnaire: ()
The best time to phone you at this number:
Has your employer told you how to contact the health care professional who will review this questionnaire (Check One): Yes No
Check the type of respirator you will use (You can check more than one category): N, R, or P disposable respirator (filter-mask, non-cartridge type only).
Other type, (for example, half- or full-face type, powered-air purifying, supplied-air, self-contained breathing apparatus).
Have you worn a respirator (Check One): Yes No
If "Yes", What type(s):



Part A. Section 2. (Mandatory) Questions 1 through 9 below must be answered by every employee who has been selected to use any type of respirator (Check "Yes" or "No").

WITO	las been selected to use any type of respirator (officer Tes of Tro ).
1.	Do you currently smoke tobacco, or have you smoked tobacco in the last month: Yes No
2.	Have you ever had any of the following conditions?
	<ul> <li>a. Seizures (fits): Yes No</li> <li>b. Diabetes (sugar disease): Yes No</li> <li>c. Allergic reactions that interfere with your breathing: Yes No</li> <li>d. Claustrophobia (fear of closed-in places): Yes No</li> <li>e. Trouble smelling odors: Yes No</li> </ul>
3.	Have you ever had any of the following pulmonary or lung problems?
	a. Asbestosis: Yes No b. Asthma: Yes No c. Chronic bronchitis: Yes No d. Emphysema: Yes No e. Pneumonia: Yes No f. Tuberculosis: Yes No g. Silicosis: Yes No h. Pneumothorax (Collapsed Lung): Yes No i. Lung Cancer: Yes No j. Broken Ribs: Yes No k. Any chest injuries or surgeries: Yes No l. Any other lung problem that you've been told about: Yes No
4.	Do you currently have any of the following symptoms of pulmonary or lung illness?
	<ul> <li>a. Shortness of breath: Yes No</li> <li>b. Shortness of breath when walking fast on level ground or walking up a slight hill or incline: Yes No</li> <li>c. Shortness of breath when walking with other people at an ordinary pace on level ground: Yes No</li> </ul>
	<ul> <li>d. Have to stop for breath when walking at your own pace on level ground: Yes No</li> <li>e. Shortness of breath when washing or dressing yourself: Yes No</li> <li>f. Shortness of breath that interferes with your job: Yes No</li> <li>g. Coughing that produces phlegm (thick sputum): Yes No</li> <li>h. Coughing that wakes you early in the morning: Yes No</li> </ul>
	<ul><li>i. Coughing that occurs mostly when you are lying down: Yes No</li><li>j. Coughing up blood in the last month: Yes No</li></ul>
	k. Wheezing: Yes No
	Wheezing that interferes with your job:     Yes     No     No
	n. Any other symptoms that you think may be related to lung problems: Yes No



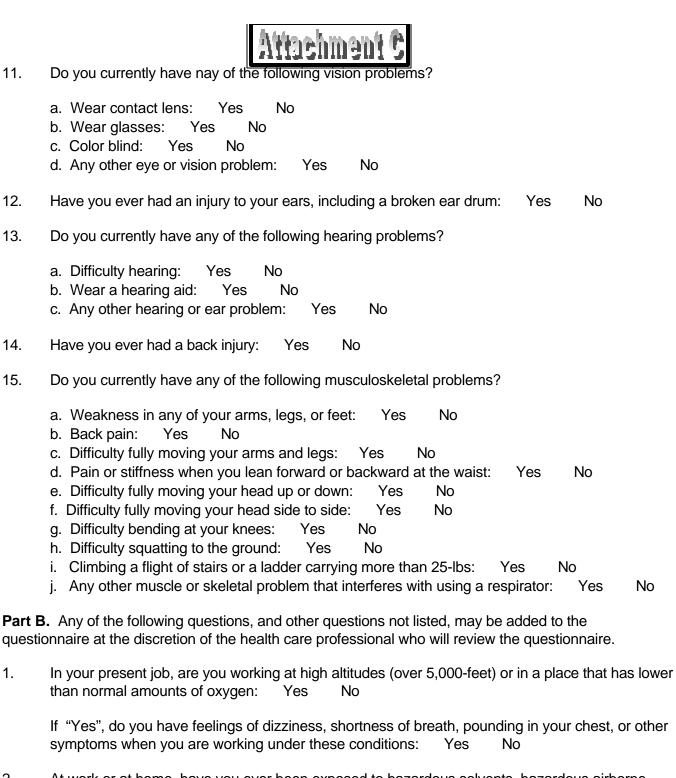
5.	Have you ever had any of the following cardiovascular or heart problems?
	<ul> <li>a. Heart attack: Yes No</li> <li>b. Stroke: Yes No</li> <li>c. Angina: Yes No</li> <li>d. Heart failure: Yes No</li> <li>e. Swelling in your legs or feet (not caused by walking): Yes No</li> <li>f. Heart arrhythmia (heart beating irregularly): Yes No</li> <li>g. High Blood Pressure: Yes No</li> <li>h. Any other heart problem that you have been told about: Yes No</li> </ul>
6.	Have you ever had any of the following cardiovascular or heart symptoms?
	<ul> <li>a. Frequent pain or tightness in your chest: Yes No</li> <li>b. Pain or tightness in your chest during physical activity: Yes No</li> <li>c. Pain or tightness in your chest that interferes with your job: Yes No</li> <li>d. In the past two years, have you noticed your heart skipping or missing a beat: Yes No</li> <li>e. Heartburn or indigestion that is not related to eating: Yes No</li> <li>f. Any other symptoms that you think may be related to heart or circulation problems: Yes No</li> </ul>
7.	Do you currently take medication for any of the following problems?
	<ul> <li>a. Breathing or lung problems: Yes No</li> <li>b. Heart trouble: Yes No</li> <li>c. Blood pressure: Yes No</li> <li>d. Seizures (fits): Yes No</li> </ul>
8.	If you've used a respirator, have you ever had any of the following problems? (If you've never used a respirator, check the following box and go to question 9:)
	<ul> <li>a. Eye irritation: Yes No</li> <li>b. Skin allergies or rashes: Yes No</li> <li>c. Anxiety: Yes No</li> <li>d. General weakness or fatigue: Yes No</li> <li>e. Any other problem that interferes with your use of a respirator: Yes No</li> </ul>
9.	Would you like to talk to the health care professional who will review this questionnaire about

your answers to this questionnaire: Yes No

Questions 10 to 15 below must be answered by every employee who has been selected to use either a

full-facepiece respirator or a self-contained breathing apparatus (SCBA). For employees who have been selected to use other types of respirators, answering these questions is voluntary.

10. Have you ever lost vision in either eye, (temporarily or permanently): Yes No



2. At work or at home, have you ever been exposed to hazardous solvents, hazardous airborne chemicals (e.g. gases, fumes, or dust), or have you come into skin contact with hazardous chemicals: Yes

If "Yes", name the chemicals if you know them:	
•	

3. Have you ever worked with any of the materials, or under any of the conditions listed below:

a. Asbestos: Yes No

b. Silica (e.g. in sandblasting): Yes No



	d. Beryllium: Yes No e. Aluminum: Yes No
	f. Coal (for example, mining): Yes No g. Iron: Yes No h. Tin: Yes No
	<ul><li>i. Dusty environments: Yes No</li><li>j. Any other hazardous exposures: Yes No</li><li>If "Yes", describe these exposures:</li></ul>
4.	List any second jobs or side businesses you have:
5.	List your previous occupations:
6.	List your current and previous hobbies:
7.	Have you ever been in the military services? Yes No
	If "Yes", were you exposed to biological or chemical agents (either in training or in combat): Yes No
8.	Have you ever worked on a Haz-Mat Team? Yes No
9.	Other than medications for breathing and lung problems, heart trouble, blood pressure, and seizures mentioned earlier in this questionnaire, are you taking any other medications for any reason (including over-the-counter medications): Yes No
	If "Yes", name the medications if you know them:
10.	Will you be using any of the following items with your respirator(s)?
	<ul><li>a. HEPA filters: Yes No</li><li>b. Canisters (for example, gas masks): Yes No</li><li>c. Cartridges: Yes No</li></ul>
11.	How often are you expected to use the respirator(s) (Check "Yes" or "No" for all answers that apply to you:
	<ul> <li>a. Escape only (no rescue): Yes No</li> <li>b. Emergency rescue only: Yes No</li> <li>c. Less than 5-hours per week: Yes No</li> <li>d. Less than 2-hours per day: Yes No</li> <li>e. 2- to 4-hours per day: Yes No</li> <li>f. Over 4-hours per day: Yes No</li> </ul>
12.	During the period you are using the respirator(s), is your work effort:
	a. <u>Light</u> (less than 200 kcal per hour): Yes No If "Yes", how long does this period last during the average shift:hrsmins.



Examples of light work effort are sitting while writing, typing, drafting, or performing light assembly work; or standing while operating a drill press (1-3 lbs.) or controlling machines.

	<ul> <li>b. <u>Moderate</u> (200 to 350 kcal per hour): Yes No</li> <li>If "Yes", how long does this period last during the average shift:hrsmins.</li> </ul>
	Examples of moderate work effort are sitting while nailing or filing; driving a truck or bus in urban traffic; standing while drilling, nailing, performing assembly work, or transferring a moderate load (about 35-lbs.) at trunk level; walking on a level surface about 2 mph or down a 5-degree grade about 3 mph; or pushing a wheelbarrow with a heavy load (about 100-lbs.) on a level surface.
	c. <u>Heavy</u> (above 350 kcal per hour): Yes No If "Yes" how long does this period last during the average shift:hrsmins.
	Examples of heavy work are lifting a heavy load (about 50-lbs) from the floor to your waist or shoulder; working on a loading dock; shoveling; standing while bricklaying or chipping castings; walking up an 8-degree grade about 2 mph; climbing stairs with a heavy load (about 50-lbs.).
13.	Will you be wearing protective clothing and/or equipment (other than the respirator) when you're using your respirator: Yes No
	If "Yes", describe this protective clothing and/or equipment:
14.	Will you be working under hot conditions (temperature exceeding 77 deg. F): Yes No
15.	Will you be working under humid conditions: Yes No
16.	Describe the work you'll be doing while you're using your respirator(s):
17.	Describe any special or hazardous conditions you might encounter when you're using your respirator(s) (for example, confined spaces, life threatening gases):
18.	Provide the following information, if you know it, for each toxic substance that you'll be exposed to when you're using your respirator(s):
	Name of Substance:
	Est. Max. Exposure Level:
	Duration of Exposure:
	Name any other toxic substances that you'll be exposed to while using your respirator(s):



19.	Describe any special responsibilities you'll have while using your respirator(s) that may affect the safety and well-being of others (for example rescue, security):

# Attachment D



Occupational Safety and Health Administration



[Text Only]

Date of Signature

# Regulations (Standards - 29 CFR)

Sample authorization letter for the release of employee medical record information to a designated representative (Non-mandatory) - 1910.1020 App A

Part Number:	1910
• Part Title:	Occupational Safety and Health Standards
• Subpart:	Z
<ul><li>Subpart Title:</li></ul>	Toxic and Hazardous Substances
Standard Number:	1910.1020 App A
• Title:	Sample authorization letter for the release of employed medical record information to a designated representative (Non-mandatory)
(individual or org to release to (indi	rker/patient) hereby authorize anization holding the medical records) ridual or organization authorized to on), the following medical information rds:
I give my permission for thi	nation desired to be released).
I give my permission for thi the following purpose:	medical information to be used for
I give my permission for thi the following purpose:	
I give my permission for thithe following purpose:  Dut I do not give permission this information.  (Note: Several extra lines and additional restrictions on the you may, however, leave these want to (1) specify a particuless than one year); (2) describes that the future that you intend letter; or (3) describe portion records which you do not interesting the following the follo	medical information to be used for
I give my permission for thithe following purpose:  Out I do not give permission this information.  (Note: Several extra lines and additional restrictions on the you may, however, leave these want to (1) specify a particuless than one year); (2) describes the future that you intend letter; or (3) describe portion	e medical information to be used for  for any other use or re-disclosure of  e provided below so that you can place s authorization letter if you want to. lines blank. On the other hand, you may ar expiration date for this letter (if ibe medical information to be created to be covered by this authorization ns of the medical information in your
I give my permission for thithe following purpose:  Dut I do not give permission this information.  (Note: Several extra lines and additional restrictions on the you may, however, leave these want to (1) specify a particuless than one year); (2) describes that the future that you intend letter; or (3) describe portion records which you do not interesting the following the follo	inedical information to be used for  for any other use or re-disclosure of  the provided below so that you can place is authorization letter if you want to. I lines blank. On the other hand, you may ar expiration date for this letter (if in its letter (if its medical information to be created to be covered by this authorization in sof the medical information in your in the medical information in your in the medical as a result of this