

Recommended Revision of 1910.1001
Fourth Draft

DRAFT

(a) Scope and Application.

- (1) This section applies to all occupational exposure to asbestos except as provided in paragraph (a)(2).
- (2) This section does not apply to construction work as defined in 29 CFR 1910.12(b).

(b) Definitions.

For the purpose of this section,

- (1) "Asbestos" includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite alone or in combination.
- (2) "Asbestos fiber" means a fibrous form of asbestos, longer than 5 micrometers with a length-to-diameter ratio of at least 5 to 1, and with a maximum diameter of 3 micrometers.
- (3) "Assistant Secretary" means the Assistant Secretary of Labor of Occupational Safety and Health, U.S. Department of Labor, or designee.
- (4) "Director" means the Director, National Institute for Occupational Safety and Health (NIOSH), U.S. Dept. of Health and Human Services (DHHS) or designee.
- (5) "Action Level" means employee exposure to airborne asbestos at or above 0.1 fibers per cubic centimeter of air averaged over an eight hour period.
- (6) "Competent Person" An individual who by virtue of education, training, or experience with asbestos is qualified to make determinations as required in this standard.

(c) Permissible Exposure to Airborne Concentrations of Asbestos Fibers

- (1) The eight hour time weighted average airborne concentration of asbestos fibers to which any employee is exposed shall not exceed 0.5 fibers per cubic

- (3) Exhaust ventilation: Where local exhaust ventilation is utilized to attain compliance, an adequate maintenance schedule shall be established and sufficient inspections shall be performed to ensure that it is operating as required.
- (4) Work practices, wet methods: Insofar as practical, asbestos and asbestos containing products shall be handled and worked in a wet state, except when doing so would adversely affect the product or create a hazard greater than that posed by the asbestos.

(f) Respiratory Protective Equipment

- (1) Respiratory equipment used must be of a type approved by current regulations for the certification of respirators. Use must be in accordance with 29 CFR 1910.134 and the following table:

Table 1 -- Permissible Respirators

Type of Respirator	Limits as a multiple of TWA or Ceiling PEL.
1. Disposable -----	Up to 5X
2. Half-face; air purifying -----	Up to 10X
3. Full-face; air purifying-----	Up to 50X
4. Full-face; powered air purifying--	Up to 100X
5. Full-face; pressure demand or continuous flow, air supplied. ----	No limit.

- (2) Other types of respirators approved under applicable regulations may also be used.
- (3) Establishment of a respirator program.
 - (a) The employer shall establish and maintain a respirator program in accordance with 29 CFR 1910.134.

(g) Personal Protective Clothing

- (1) Special clothing: The employer shall provide and

division to effectively prevent the release of airborne asbestos fibers in excess of the exposure limits prescribed in paragraph (c) of this section.

- (c) Contaminated clothing shall be transported in sealed impermeable containers, and labeled in accordance with paragraph (k) of this section.

(i) Method Of Measurement

Airborne concentrations of asbestos fibers shall be determined by the membrane filter method at 400-450 X (magnification) (4 millimeter objective) with phase contrast illumination or an equivalent method approved by the Director.

(j) Monitoring

- (1) Initial Determination: Where asbestos or asbestos containing materials are present or used in the workplace, a competent person shall determine whether employees may be exposed at or above the Action Level.
- (2) Initial Monitoring: If the initial determination shows that employees may be exposed to asbestos at or above the Action Level, then the employer shall perform monitoring to determine whether any person is exposed to airborne asbestos fibers in excess of permissible limits.
- (3) Past data may be used to comply with paragraph (j)(1)(2) provided that the data was derived using the sampling and analytical techniques prescribed in this standard, and that the operation for which the initial determination was performed has not significantly changed with respect to asbestos concentrations.
- (4) Sampling frequency: If, after the initial monitoring required by subparagraph (j)(2) of this paragraph, the PEL is exceeded, samples shall be of such frequency and pattern as to represent with reasonable accuracy the levels of exposure of employees.

In no case shall the sampling be done at intervals greater than six months for employees whose exposure to asbestos exceeds the limits prescribed by paragraph (c) of this section.

- (5) Representative Monitoring: Sampling shall be conducted in a manner which assures that results are indicative of the exposure(s) of employees.

(l) Housekeeping

- (1) **Cleaning:** All exposed surfaces in any place of employment shall be maintained as free as possible of accumulations of asbestos fibers.
- (2) **Waste disposal:** Asbestos waste, scrap, debris, bags, containers, equipment and asbestos-contaminated clothing, consigned for disposal, which may produce in any reasonably foreseeable use, handling, storage, processing, disposal, or transportation, airborne concentrations of asbestos fibers in excess of the exposure limits prescribed in paragraph (c) of this section shall be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers.

(m) Recordkeeping

- (1) Every employer shall maintain records of any personal or environmental monitoring required by this section. Records shall be maintained as in 29 CFR 1910.20 and shall be made available upon request to the Assistant Secretary of Labor of Occupational Safety and Health, the Director of the National Institute for Occupational Safety and Health, and to authorized representatives of either.
- (2) **Access to records:** Employee exposure records required by this paragraph shall be provided upon request to employees, designated representatives, and the Assistant Secretary in accordance with 29 CFR 1910.20 (a)-(e) and (g)-(1).

(n) Employee Notification

Any employee found to have been exposed (without regard to personal protective equipment) to concentrations of asbestos fibers in excess of limits prescribed in paragraph (c) of this section shall, after receipt of analytical results, be notified of the exposure as soon as possible. The employee shall also be notified of corrective action being taken. Employees who the employer reasonably believes were similarly exposed, but who were not monitored, shall also be notified.

(o) Training

- (1) Each employer whose employees are exposed at or above the Action Level shall have a written training program.