## Construction Standards with Written Program Requirements

TOSHA believes this information to be accurate and delivers it as a community service. As such, it cannot apply to every specific fact or situation; nor is it a substitute for any provisions of 29 CFR Part 1926 of the Occupational Safety and Health Standards as adopted by the Tennessee Department of Labor and Workforce Development or of the Occupational Safety and Health Rules of the Tennessee Department of Labor and Workforce Development.

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<tr>
<td>Emergency Action Plans</td>
<td>1926.35</td>
<td>Evacuation due to emergencies</td>
<td>Yes, unless there are 10 or fewer employees</td>
<td>As necessary</td>
<td>1. Emergency escape procedures</td>
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<td>2. Escape route assignments</td>
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<td>3. Procedures for critical plan operations shutdown</td>
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<td>4. Procedures to account for employees</td>
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<td>5. Rescue and medical duties</td>
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<td>6. Means of reporting fires and other emergencies</td>
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<td>7. Names and job titles of contact person</td>
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<tr>
<td>Hazard Communication</td>
<td>1926.59</td>
<td>Exposure to hazardous chemicals</td>
<td>Yes</td>
<td>As necessary</td>
<td>1. Hazard determination</td>
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<td>2. List of hazardous chemicals</td>
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<td>3. Labeling of hazardous chemicals</td>
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<td>4. MSDS policy</td>
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<td>5. Training policies</td>
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<td>6. Methods used to inform employees of hazards of non-routine tasks</td>
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<td>7. Multi-employer activity procedures</td>
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<tr>
<td>Methyleledaniline (MDA)</td>
<td>1926.60</td>
<td>a. When exposures exceed the PEL</td>
<td>Yes —</td>
<td>At least annually</td>
<td>a. Compliance program</td>
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<td></td>
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<td>(PEL=8hr TWA of 10 ppb and a 15 min STEL of 100 ppb)</td>
<td>a. Compliance program</td>
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<td>1. How the employer will reduce employee exposure to below the PELs using engineering controls, work practice controls, and respiratory protection</td>
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<td></td>
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<td>b. When respirator use is required</td>
<td>b. Respiratory program</td>
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<td>2. A schedule for periodic maintenance</td>
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<td></td>
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<td>c. When there is possibility of an</td>
<td>c. Emergency plan</td>
<td></td>
<td>b. See 1926.103</td>
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<td>emergency</td>
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<td>c. Emergency plan</td>
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<td>1. Personal protective equipment and clothing</td>
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| Lead                            | 1926.62    | a. When exposures exceed the PEL exposure limit (PEL=8hr TWA of 50 µg/m³)  
  b. When respirator use is required | YES      | at least annually | a. Compliance program  
  1. Description of each operation in which lead is emitted  
  2. Description of specific means to be used to achieve compliance  
  3. A report of the technology considered in meeting the permissible exposure limit  
  4. Air monitoring data  
  5. A schedule for implementation of the program including documentation  
  6. A work practice program  
  7. An administrative control schedule, if applicable  
  8. Description of arrangements made among contractors to inform affected employees of potential exposure and compliance responsibility  
  b. See 1926.103 |
| Process Safety Management       | 1926.64    | 1. Presence of chemical above the threshold quantity  
  2. Presence of flammable chemical or gas in excess of 10,000 lbs  
  3. Manufacture of explosives or | Yes      | As necessary | Procedures for:  
  1. Employee participation  
  2. Compilation of process safety information  
  3. Process hazard analysis  
  4. Operating procedures  
  5. On-going integrity of process equipment  
  6. Management of change  
  7. Incident investigation  
  8. Emergency planning and response |
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| Emergency Response Plans         | 1926.65    | Possibility of uncontrolled release of a hazardous chemical           | Yes          | As necessary  | 1. Pre-emergency planning  
2. Coordination with outside parties  
3. Personnel roles  
4. Emergency recognition and prevention  
5. Safe distances and places of refuge  
6. Site security and control  
7. Evacuation routes and procedures  
8. Decontamination  
9. Emergency medical treatment procedures  
10. Emergency alerting and response procedures  
11. Critiques of response and follow-up  
12. PPE and emergency equipment |
| Respiratory Protection           | 1926.103   | Respirators are required to be worn; overexposure, possible overexposure, unknown atmosphere | Yes, unless is voluntary use of filtering facepiece | Regularly Procedures for:  
1. Selection  
2. Medical evaluations  
3. Fit testing  
4. Proper use in routine situations and emergencies  
5. Maintenance, and schedule  
6. Ensuring air quality, quantity and flow for atmosphere-supplying respirators  
7. Training: hazards and proper use  
8. Regular evaluations of effectiveness |
| Fall Protection                  | 1926.502   | When engaged in leading edge work, precast concrete erection work, or residential | YES          | Must be “up to date” and specific to the site | 1. Reasons why use of conventional fall protection equipment are infeasible or would create a greater hazard  
2. Discussion of other measures to be taken to reduce or eliminate fall hazards |
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|         |            |      |          |               | 3. Identity of each location where conventional fall protection methods cannot be used and designation of those areas as controlled access zone  
4. When no other measure has been implemented, the implementation a safety monitoring system  
5. Names or other method of identification for each employee who is designated to work in a controlled access zone |
| construction and can demonstrate that it is infeasible or creates a greater hazard to use conventional fall protection equipment |
| Vinyl Chloride | 1926.1117 | a. When exposures exceed the PEL \( (PELs=8\text{ hr TWA of }1\text{ ppm and }15\text{ min STEL of }5\text{ ppm}) \)  
b. When respirator use is required | Yes— | Annually | a. Compliance Program  
How the employer will reduce employee exposure to below the permissible exposure limits or to the greatest extent feasible using engineering and work practice controls  
b. See 1926.103 |
| b. When respirator use is required |
| Inorganic Arsenic | 1926.1118 | a. When exposures exceed the PEL \( (PEL=8\text{ hr TWA of }10\text{ µg/m}^3) \)  
b. When respirator use is required | Yes— | Annually | a. Compliance program  
1. Description of each operation in which inorganic arsenic is emitted  
2. Engineering plans and studies used to determine methods for controlling exposure  
3. A report of the technology considered in meeting the permissible exposure limit  
4. Air monitoring data  
5. A schedule for implementation of engineering and work practice controls  
b. See 1926.103 |
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| Cadmium          | 1926.1127  | a. When exposures exceed the PEL *(PEL=8hr TWA of 5 µg/m³)*  
b. When respirator use is required | Yes—     | As often as necessary | *a. Compliance program  
b. Respirator program* |
|                  |            |                                                                      |          |               |          |
| Vinyl Chloride   | 1910.1017  | a. When exposures exceed the PEL *(PELs=8 hr TWA of 1 ppm and 15 min STEL of 5 ppm)*  
b. When respirator use is required | Yes—     | Annually | *a. Compliance Program  
How the employer will reduce employee exposure to below the permissible exposure limits or to the greatest extent feasible using engineering and work practice controls  
b. See 1926.103* |
|                  |            |                                                                      |          |               |          |
| Inorganic Arsenic| 1910.1018  | a. When exposures exceed the PEL *(PEL=8hr TWA of 10 µg/m³)*  
b. When respirator use is required | Yes—     | Annually | *a. Compliance program  
1. Description of each operation in which inorganic arsenic is emitted  
2. Engineering plans and studies used to determine methods for controlling exposure  
3. A report of the technology considered in meeting the permissible exposure limit  
4. Air monitoring data  
5. A schedule for implementation of engineering and work practice controls  
b. See 1926.103* |
|                  |            |                                                                      |          |               |          |
| Lead             | 1910.1025  | a. When exposures exceed the PEL exposure limit *(PEL=8hr TWA of 50 µg/m³)*  
b. When respirator use is required | Yes—     | At least annually | *a. Compliance program  
9. Description of each operation in which lead is emitted  
10. Description of specific means to be used to achieve compliance  
11. A report of the technology considered in meeting the permissible exposure limit  
12. Air monitoring data  
13. A schedule for implementation of the program including documentation* |
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| Cadmium | 1926.1127  | c. When exposures exceed the PEL \((PEL=8\text{hr TWA of }5 \mu \text{g/m}^3)\)  
d. When respirator use is required  | Yes—  
a. Compliance program  
b. Respirator program  | At least annually  
a. Compliance program  
Engineering, work practice controls, and appropriate respiratory protection to be used to reduce exposures to below the PEL  
b. See 1926.103  |
| Benzene | 1910.1128  | a. When exposures exceed the PEL \((PEL=8\text{hr TWA of }1 \text{ ppm})\)  
b. When respirator use is required  | Yes—  
a. Compliance program  
b. Respirator program  | As appropriate based on most recent air monitoring  
a. Compliance program  
1. How the employer will reduce employee exposure to below the permissible exposure limit using engineering and work practice controls  
2. A schedule for development and implementation of engineering and work practice controls  
b. See 1926.103  |
| Coke Oven Emissions | 1926.1129 | a. When exposures exceed the PEL \((PEL=8\text{hr TWA of }150 \mu \text{g/m}^3)\)  
b. When respirator use is required | Yes—  
a. Compliance program  
b. Respirator program  | At least annually  
a. Compliance program  
1. A description of each coke oven operation by battery  
2. Engineering plans and other studies used to determine the controls  
3. A report of the technology considered in meeting the permissible exposure limit  
4. Air monitoring data  
5. A schedule for implementation of the engineering and work practice controls  
b. See 1926.103 |
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| 1,2-Dibromo-3-Chloropropane (DBCP)           | 1926.1144   | a. When exposures exceed the PEL \(PEL=8\text{hr TWA of 1 ppm}\)  
b. When respirator use is required | **Yes**—  
a. Compliance program  
b. Respirator program | At least annually | a. Compliance program  
A schedule for implementation of the engineering and work practice controls  
b. See 1910.134 |
| Acrylonitrile                                | 1926.1145   | a. When exposures exceed the PEL \(PEL=8\text{hr TWA of 2 ppm and a 15 min ceiling of 10 ppm}\)  
b. When respirator use is required | **Yes**—  
a. Compliance program  
b. Respirator program | At least annually | a. Compliance program  
1. A description of each operation or process resulting in exposure to acrylonitrile above the PELs  
2. An outline of the nature of the engineering controls and work practice controls to be applies  
3. A report of the technology considered in meeting the PELs  
4. A schedule of implementation of engineering and work practice controls  
b. See 1910.134 |
| Ethylene Oxide                               | 1926.1147   | a. When exposures exceed the PEL \(PEL=8\text{hr TWA of 1 ppm and a 15 min excursion limit of 5 ppm}\)  
b. When respirator use is required | **Yes**—  
a. Compliance program  
b. Respirator program | At least annually | a. Compliance program  
1. How the employer will reduce employee exposure to below the PELs using engineering controls, work practice controls, and respiratory protection  
2. A schedule for periodic lead detection surveys  
3. Plan for emergency situations  
b. See 1910.134 |
| Formaldehyde                                 | 1926.1148   | a. When exposure to formaldehyde occurs  
b. When respirator use is required | **Yes**—  
a. Hazard communication program  
b. Respirator program | Regularly | a. See 1910.1200  
b. See 1910.134 |