



AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.43 - 2016
Confined Spaces in Construction and
Demolition Operations*

*American National Standard
for Construction and Demolition Operations*

ANSI/ASSE A10.43-2016



AMERICAN SOCIETY OF
SAFETY ENGINEERS

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Construction and Demolition Operations
Confined Spaces in Construction and Demolition Operations

Secretariat

American Society of Safety Engineers
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Park Ridge, IL 60068

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Foreword (This Foreword is not a part of American National Standard A10.43-2016).

This standard is one of a series of safety standards that have been formulated by the Accredited Standards Committee on Safety in Construction and Demolition Operations, A10. It is expected that the standards in the A10 series will find a major application in industry, serving as a guide to contractors, labor, and equipment manufacturers. For the convenience of users, a list of existing and proposed standards in the A10 series for Safety Requirements in Construction and Demolition Operations follows.

- A10.1 Pre-Project & Pre-Task Safety & Health Planning
- A10.2 Safety, Health and Environmental Training (under development)
- A10.3 Powder-Actuated Fastening Systems
- A10.4 Personnel Hoists and Employee Elevators
- A10.5 Material Hoists
- A10.6 Demolition Operations
- A10.7 Transportation, Storage, Handling and Use of Commercial Explosives and Blasting Agents
- A10.8 Scaffolding
- A10.9 Concrete and Masonry Construction
- A10.10 Temporary and Portable Space Heating Devices
- A10.11 Personnel Nets
- A10.12 Excavation
- A10.13 Steel Erection
- A10.15 Dredging
- A10.16 Tunnels, Shafts and Caissons
- A10.17 Safe Operating Practices for Hot Mix Asphalt (HMA) Construction
- A10.18 Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges
- A10.19 Pile Installation and Extraction Operations
- A10.20 Ceramic Tile, Terrazzo, and Marble Work
- A10.21 Safe Construction and Demolition of Wind Generation/Turbine Facilities (under development)
- A10.22 Rope-Guided and Non-Guided Workers' Hoists
- A10.23 Safety Requirements for the Installation of Drilled Shafts
- A10.24 Roofing – Safety Requirements for Low-Sloped Roofs
- A10.25 Sanitation in Construction
- A10.26 Emergency Procedures for Construction Sites
- A10.27 Hot Mix Asphalt Facilities
- A10.28 Work Platforms Suspended from Cranes or Derricks
- A10.29 Aerial Platforms in Construction (under development)
- A10.31 Digger-Derricks
- A10.32 Personal Fall Protection Used in Construction and Demolition Operations
- A10.33 Safety and Health Program Requirements for Multi-Employer Projects
- A10.34 Public Protection
- A10.37 Debris Nets
- A10.38 Basic Elements of a Program to Provide a Safe and Healthful Work Environment
- A10.39 Construction Safety and Health Audit Program
- A10.40 Reduction of Musculoskeletal Problems in Construction
- A10.42 Rigging Qualifications and Responsibilities in the Construction Industry
- A10.43 Confined Spaces in Construction and Demolition Operations
- A10.44 Lockout/Tagout in Construction
- A10.46 Hearing Loss Prevention
- A10.47 Highway Construction Safety
- A10.48 Communication Structures
- A10.49 Control of Health Hazards

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AMERICAN NATIONAL STANDARD A10.43 CONFINED SPACES IN CONSTRUCTION AND DEMOLITION OPERATIONS

1. SCOPE, PURPOSE AND EXCEPTIONS

1.1 Scope. This standard sets forth the minimum elements and activities of a program that defines the duties and responsibilities of construction and demolition employers to be followed while entering, exiting and working in confined spaces at normal atmospheric pressure.

Exception: This standard does not pertain to underground mining, tunneling, caisson work or other similar tasks that have established national consensus standards.

1.2 Purpose. The purpose of this standard is to establish minimum requirements and procedures for the safety and health of employees who work in, in connection with, and around (in such proximity that would affect employees) confined spaces on construction and demolition projects.

1.3 Exceptions. In cases of practical difficulties, unnecessary hardships or new developments, exceptions to the literal requirements may permit the use of other means and methods, but only when it is clearly indicated by a qualified person that the equivalent protection is thereby secured.

2. REFERENCES

ACGIH TLVs[®] and BEIs[®]

ANSI/ASSE A10.1, *Pre-Project & Pre-Task Safety and Health Planning*

ANSI/NEMA, Z535 Series

3. DEFINITIONS

3.1 Acceptable Entry Conditions. A condition that shall exist in a permit confined space to allow entry and to ensure that the confined space entry team involved with a confined space entry can safely enter into, work or perform operations within the space and self-rescue from the confined space without any aided assistance.

3.2 Air Tester. A person qualified by training to test atmospheric conditions of a confined space for the purpose of determining acceptable entry conditions.

3.3 Attendant. A trained person who is assigned to perform all of the attendant's duties assigned in the employer's confined space entry program and to effectively monitor a confined space entry operation and provide support or react as required to provide for the safety of the entrants.

3.4 Authorized Rescuer. A person assigned by the employer qualified to perform rescue services in a confined space; to comply with this standard an authorized rescuer is required to receive annual training and to demonstrate competence to perform confined space rescue.

3.5 Barrier. A physical obstruction that blocks or limits access.

3.6 Biohazards. Microbiological agents presenting a risk or potential risk to the well-being of humans through inhalation, ingestion, dermal exposure or injection.

3.7 Biological Hazards. Hazards from vermin, wildlife, mold, biohazards and poisonous fauna or flora.

3.8 Blanking or Blinding. The absolute closure of a pipe, line or duct by the