

ANSI/ASSP A10.47-2021

Work Zone Safety for Roadway Construction



AMERICAN SOCIETY OF
SAFETY PROFESSIONALS



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ANSI/ASSP A10.47 – 2021

**American National Standard
Construction and Demolition Operations**

**Work Zone Safety
for Roadway Construction**

Secretariat

American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, Illinois 60068

Approved September 23, 2021

American National Standards Institute

American National Standard

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Foreword (This Foreword is not a part of American National Standard A10.47-2021.)

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 and technical materials in the A10 series for Safety Requirements in Construction and Demolition Operations follows.

A10.0	The Construction and Demolition Compendium of Standards
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	Use, Storage, Handling and Site Movement of Commercial Explosives and Blasting Agents
A10.8	Scaffolding
A10.9	Concrete and Masonry Construction
A10.11	Personnel Nets
A10.12	Excavation
A10.13	Steel Erection
A10.15	Dredging
A10.16	Tunnels, Shafts and Caissons
A10.18	Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges
A10.19	Pile Installation and Extraction Operations
A10.21	Safe Construction and Demolition of Wind Generation/Turbine Facilities
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
A10.28	Work Platforms Suspended from Cranes or Derricks
A10.29	Pre-Planning, Installation, Inspection and Use of Fall Protection for Construction and Demolition (under development)
A10.30	Installation of Anchors and Micropiles
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
A10.35	Pressure Testing of Steel and Copper Piping Systems
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
A10.50	Heat Stress Management in Construction and Demolition Operations (under development)
A10.100	Prevention through Design in Construction
A10.101	Drones in Construction (under development)

- A10.102 Emerging Technology in Construction (under development)
- A10.103 Lagging and Leading Indicators Used in Construction (under development)
- A10.104 Pandemics and Infectious Diseases on Construction and Demolition Sites (under development)

One purpose of these standards is to serve as guides to governmental authorities having jurisdiction over subjects within the scope of the A10 Committee standards. If these standards are adopted for governmental use, the reference of other national codes or standards in individual volumes may be changed to refer to the corresponding regulations.

Normative Requirements: This standard uses the single column format common to many international standards. The normative requirements appear aligned to the left margin. To meet the requirements of this standard, machinery, equipment and process suppliers and users must conform to these normative requirements. These requirements typically use the verb “shall.”

NOTE: The informative or explanatory notes in this standard appear indented, in italics, in a reduced font size, which is an effort to provide a visual signal to the reader that this is informative note, not normative text, and is not to be considered part of the requirements of this standard; this text is advisory in nature only. The suppliers and users are not required to conform to the informative note. The informative note is presented in this manner in an attempt to enhance readability and to provide explanation or guidance to the sections they follow.

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Committee Meetings: The A10 Committee meets twice per year. Persons wishing to attend a meeting should contact the Secretariat for information.

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**AMERICAN NATIONAL STANDARD A10.47
WORK ZONE SAFETY FOR
ROADWAY CONSTRUCTION**

1. General

1.1 Scope

This standard covers workers engaged in construction, utility work, maintenance or repair activities on any area of a roadway.

1.2 Purpose

Establishes the minimum requirements for the construction and maintenance of roadways to achieve the following objectives:

1. Prevent worker injuries and illnesses resulting from working in roadway work zones.
2. Establish safe work practices in roadway work zones.
3. Prevent vehicular crashes in roadway work zones.

2. Related American National Standards and Other References

2.1 Related American National Standards

The American National Standards found in the ANSI/ASSP A10 Construction and Demolition Operation series contain materials and instructions related to other aspects of roadway construction and are beneficial to use, see the foreword of this standard for this listing. The following American National Standards are referred to, supplement or are related to this document. Provisions of other federal, state, local, ANSI or other standards creating organization standards that are applicable to roadway construction are to be considered. When American National Standards are superseded by a revision approved by the American National Standards Institute, the revision shall apply.

ANSI/ALI A14, *Ladders*

ANSI/ASSP A10.1, *Pre-Planning for Construction Safety and Health*

ANSI/ASSP A10.3, *Powder-Actuated Fastening Systems*

ANSI/ASSP A10.8, *Scaffolding*

ANSI/ASSP A10.12, *Safety Requirements for Excavation*

ANSI/ASSP A10.25, *Sanitation in Construction*

ANSI/ASSP A10.26, *Emergency Procedures for Construction Sites*

ANSI/ASSP A10.32, *Fall Protection Systems for Construction and Demolitions*

ANSI/ASSP A10.33, *Safety and Health Program Requirements for Multi-Employer Projects*

ANSI/ASSP A10.34, *Public Protection*

ANSI/ASSP A10.38, *Basic Elements of an Employer's Program to Provide a Safe and Healthful Work Environment*

ANSI/ASSP A10.40, *Reduction of Musculoskeletal Problems in Construction*

ANSI/ASSP A10.44, *Control of Energy Sources (Lockout/Tagout) for Construction and Demolitions Operations*