



AMERICAN NATIONAL STANDARD

*ANSI/ASSE A10.48 – 2016
Criteria for Safety Practices with the
Construction, Demolition, Modification and
Maintenance of Communication Structures*

*American National Standard
for Construction and Demolition Operations*

ANSI/ASSE A10.48 – 2016



AMERICAN SOCIETY OF
SAFETY ENGINEERS

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ANSI/ASSE A10.48 – 2016

**American National Standard
Construction and Demolition Operations**

**Criteria for Safety Practices with the
Construction, Demolition, Modification and Maintenance of
Communication Structures**

Secretariat

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

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Foreword (This Foreword is not a part of American National Standard A10.48-2016.)

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

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.

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 Jennie Dalesandro, Administrative Technical Support

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Name of Representative

Accident Prevention Corporation	Frank Burg, CSP, P.E. Terry Krug, CSP, CIH
American Insurance Services Group	Thad Nosal James G. Borchardt, CSP, CPE, CRIS
ASCE - Construction Institute Committee	William R. Nash, P.E. Harlan Fair, P.E.
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CPWR - Center for Construction Research & Training	Bruce Lippy, Ph.D., CIH, CSP
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Clark Construction Group	Kurt Dunmire, CSP, CHST
Cole-Preferred Safety Consulting, Inc.	Barry Cole
Philip L. Colleran	Philip L. Colleran, CSP
Construction & Realty Safety Group, Inc.	Ron Lattanzio Frank Marino
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Elevator Industry Work Preservation Fund	Michael D. Morand James Demmel
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Engineering Systems, Inc.	David Ahearn, P.E. Edward J. Tuczak, P.E.
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International Brotherhood of Boilermakers	Terry Lynch
International Brotherhood of Electrical Workers	Jim E. Lapping, MS, P.E., CSP
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Maryland Occupational Safety & Health	Steve Stock, P.E., PLS
Mechanical Contractors Association of America	Rusty Brown, CSP
National Association of Home Builders	Jason Scollin, CSP
National Association of Railroad Safety Consultants & Investigators	Scott Schneider, MS, CIH
National Electrical Contractors Association	Walter A. Jones, MS, CIH
National Institute for Occupational Safety & Health	Chuck Wigger, CSP
National Railroad Contractors & Maintenance Association	Micky Vint
National Roofing Contractors Association	Joel Pickering, CET, CHMM
National Society of Professional Engineers	Michael Lentz
Operative Plasterers and Cement Masons International Association	Daniel P. Lavoie, CSP, ARM
Phoenix Fabricators and Erectors, Inc.	Stan Williams, ARM, CHST
Powder Actuated Tool Manufacturer's Institute	Timothy Bergeron, CSP
Power Consultants, Incorporated	Mischelle Vanreusel
	Michael Daughaday
	Peter Chaney, MS, CSP
	Dennis Langley
	Robert Matuga
	Chelsea Vetick
	Lewis Barbe, P.E., CSP, CRSP
	Michael J. Johnston
	Wesley Wheeler
	Thomas G. Bobick, Ph.D., P.E., CSP, CPE
	G. Scott Earnest, Ph.D., P.E, CSP
	Jeffrey D. Meddin, CSP, CHEP, CHCM
	Harry Dietz
	Tom Shanahan
	E. Ross Curtis, P.E., DFE
	Paul Swanson, P.E.
	Deven Johnson
	Luke Humphrey
	Frank Massey
	James A. Borchers
	Craig Pratt
	David Goldsmith
	Camille Villanova

Professional Safety Consultants, Inc.

Ryland Group, Inc., The
Safety Environmental Engineering, Inc.

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United Association of Plumbers and Pipefitters
United Brotherhood of Carpenters and
Joiners of America
United Union of Roofers, Waterproofers and
Allied Workers
U.S. Department of the Army – Corps of Engineers

U.S. Department of Energy

West Virginia University Extension Service

ZBD Constructors (Zurn Industries)

Jim E. Lapping, MS, P.E., CSP
Anthony Brown
Bob Masterson, CSP
Matthew Murphy
Elliot Niefeld
Granville Loar
Carmen Shafer, CSP, CHST, CRIS

Mike McCullion, CSP, ARM
Randall Krocka
Charles Austin, MS
Stanley Pulz, CSP, P.E.
Cindy L. DePrater, ALCM
Paul Huntley
Rich Benkowski
William Irwin
Dale Shoemaker

Keith J. Vitkovich
Brian Becker, MS
Andrew Blaisdell, MS, EI
Bill R. McArthur, Ph.D., CIH
Terry Meisinger
Brandon Takacs, CSHM
Mark Fullen, Ed.D., CSP
Greg Thompson, CSP
Jeffrey D. Meddin, CSP, CHEP, CHCM

Independent Experts & Observers:

Balfour Beatty Construction, LLC
PAR Electrical Contractors

Charles Bird
Steven T. Theis
Lee Boulanger

Subgroup A10.48 had the following members:

Gordon Lyman, Chair
J. Nigel Ellis, Ph.D., P.E., CSP, CPE, Liaison
Lewis Barbe, P.E., CSP, CRSP
Jeremy Buckles
Pat Cipov
Robert E. Clouse, CSP, CHST
Jim W. Coleman
Drue Ann Conley
Sean Cooper
Ed Dennis
Joey Deuer
Don Doty
Kevin Dougherty
Kyle Fulton
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Ed Hartmann, III
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Ernie Jones

Scott Kisting
Loui McCurley
Robert Medlock
Miles Mellor
Eric Munsell, CSP
Daniel M. Paine
Clay Parchewsky
Marina Perilli
Michael Serpe, CSP
Terry Sharp
Tom Silliman, P.E.
Kathryn L. Stieler
Shelly Trego
Jocko Vermillion
Wesley Weis
Jane Williams, CPEA, CCA

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AMERICAN NATIONAL STANDARD A10.48 CRITERIA FOR SAFETY PRACTICES WITH THE CONSTRUCTION, DEMOLITION, MODIFICATION AND MAINTENANCE OF COMMUNICATION STRUCTURES

1. GENERAL

1.1 Scope. This standard establishes minimum criteria for safe work practices and training for personnel performing work on communication structures including antenna and antenna supporting structures, broadcast and other similar structures supporting communication related equipment.

This standard does not address specific work practices or personnel training requirements involving crane applications which are covered explicitly within other ANSI and OSHA standards and regulations. At a minimum, all construction activities on communication structures involving cranes shall include direct communication with the crane company and/or operator to establish rigging plan requirements and key designated personnel to ensure individual roles and responsibilities are fully understood. At a minimum, designated key personnel, where applicable, shall include the crane operator, signal person, spotter and qualified rigger(s) responsible for attaching and detaching the lifted loads from the crane's hook.

The language in the standard regarding personnel riding the load line on a base mounted hoist is specific to this standard and does not apply to any other industry or standard.

1.2 Application. The information contained in this standard was obtained from sources as referenced, and represents the accepted industry best practices for work on communication structures.

While it is believed to be accurate, this information should not be relied upon for a specific application without competent professional examination and verification of its accuracy, suitability and applicability.

1.3 History The criteria for loading, analysis and design, along with means and

methods criteria related to the construction, installation, alteration and maintenance of communication structures were originally contained in the ANSI/TIA-1019-A, *Standard for Installation, Alteration and Maintenance of Antenna Supporting Structures and Antennas*. In response to industry initiatives, separate standards have been developed to provide greater clarity to the industry stakeholders. Means and methods provisions related to construction are now contained in this standard and loading, analysis and design provisions are contained in ANSI/TIA-322, *Loading Criteria, Analysis, and Design Related to the Installation, Alteration and Maintenance of Communication Structures*.

In addition to the official publication of the ANSI/TIA-322 standard, this standard makes specific reference to the ANSI/TIA-1019-A standard for topics related to loading, analysis and engineering design provisions.

With the publication of ANSI/ASSE A10.48 and ANSI/TIA-322, ANSI/TIA 1019-A will become obsolete.

2. REFERENCES

AISC "Steel Construction Manual", 13th Edition, American Institute of Steel Construction, Inc., 2005

ANSI/ASSE A10.4, *Personnel Hoists and Employee Elevators*

ANSI/ASSE A10.5, *Material Hoists*

ANSI/ASSE A10.6, *Safety Requirements for Demolition Operations*

ANSI/ASSE A10.28, *Work Platforms Suspended from Cranes or Derricks*

ANSI/ASSE A10.32, *Personal Fall Protection Systems for Construction and Demolition Operations*