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ANSI®

American National Standard
Construction and Demolition Operations

Safety Requirements
for Rigging Qualifications and Responsibilities

Secretariat

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

Approved October 5, 2017

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Foreword

(This Foreword is not a part of American National Standard A10.42-2000 (R2017).)

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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<td>Jim Bates, CSP</td>
</tr>
<tr>
<td></td>
<td>Robert Hinderliter, ASP</td>
</tr>
<tr>
<td></td>
<td>Thomas Trauger</td>
</tr>
</tbody>
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Richard D. Hislop
Independent Electrical Contractors, Inc.
Innovative Safety, LLC
Institute of Makers of Explosives
International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers
Insulators & Allied Workers
International Brotherhood of Boilermakers
International Brotherhood of Electrical Workers
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National Association of Railroad Safety Consultants & Investigators
National Electrical Contractors Association
National Institute for Occupational Safety & Health
National Railroad Construction & Maintenance Association
National Roofing Contractors Association
National Society of Professional Engineers

Richard Hislop
Shawn Bradfield
Paul Dolenc
Jerry Rivera
Daniel M. Paine
Barbara Paine
Susan JP Flanagan
Ronald Thomas
Steven Rank
Tim Keane
Mark Garrett
Bridget Connors
David Mullen
Dan Gardner
LaMont Byrd, CIH
Asher Tobin
Cristine Fargo
Michael Kassman, CHST
Gerard Scarano
Christopher Treml
Barbara McCabe
Rusty Brown, CSP
Dave Hinz
Walter A. Jones, MS, CIH
Travis Parsons
Chuck Wigger, CSP
Beth Phelps
Joel Pickering, CET, CHMM
Michael Lentz
Daniel P. Lavoie, CSP, ARM
Stan Williams, ARM, CHST
Timothy Bergeron, CSP
Mischelle Vanreusel
Michael Daughaday
Peter Chaney, MS, CSP
Dennis Langley
Frank Trujillo
Alex Rodas, CHST
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, F.ASCE, F.NSPE
Paul Swanson, P.E.
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SPA Incorporated
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The Association of Union Constructors
Turner Construction Company
U.S. Army Corps of Engineers
U.S. Department of Energy
United Association
United Brotherhood of Carpenters and Joiners of America
United Union of Roofers, Waterproofers & Allied Workers
West Virginia University Extension Service
ZBD Constructors, Inc.

Independent Experts & Observers:
Alliance of Hazardous Materials Professionals
J.A. Montgomery Risk Control
Lockton Companies
National Association of Tower Erectors
U.S. Department of Labor – OSHA
Warfel Construction Company

Michael Hayslip, P.E., CSP
Deven Johnson
James A. Borchers
Craig Pratt
Luke Humphrey
Frank Massey
David Goldsmith
Jim E. Lapping, MS, P.E., CSP
Kathryn Stieler
Matthew Murphy
Ted Beville
DeAnna Martin
Carmen Shafer, CSP, CHST
Mike McCullion, CSP, ARM
Randall Krocka
Charles Austin, MS
Stanley Pulz, CSP, P.E.
Steve Stock, P.E., PLS
Wayne Creasap, II
Kathleen Dobson, CSP, CHST, STS.C
Cindy L. DePrater, ALCM
Abdon Friend, CSP
Muhamed El-Zoghbi
Bonnie Rathbun, CIH, CET
Terry Meisinger
Maurice Haygood
Cheryl Ambrose, CHST, OHST
Rich Benkowski
William Irwin
Dale Shoemaker
Keith J. Vitkovich
Brandon Takacs, CSHM
Mark Fullen, Ed.D., CSP
Greg Thompson, CSP
Jeffrey D. Meddin, CSP, CHEP, CHCM

Carl Heinlein, CSP, ARM, CRIS
Eric Voight
Ken Bogdan
Jason Scollin, CSP, ASP, MS, STC-C
John P. Jones
Kathryn Stieler
Dean McKenzie
Scott Ketcham
Jeffrey I. Pierce
Kevin Stoltzfus
Subgroup A10.42 had the following members:

Steven Rank (Chair)
Rich Benkowski
Barry Cole
Wayne Creasap, II
Kathleen Dobson, CSP, CSHT, STS.C
Jack Duley
Mark Garrett
Luke Humphrey
Jim Lapping, MS, P.E., CSP
Michael Nordstrom
Beth O’Quinn
Daniel Paine
Travis Parsons
Chip Pocock
Stanley Pulz, CSP, P.E.
Dale Shoemaker
Alan Simmons
Frank Trujillo
Chuck Wigger, CSP
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1. GENERAL

1.1 Scope. This standard establishes minimum criteria of knowledge and performance requirements for a qualified rigger in the construction industry.

1.2 Purpose. This standard is designed to assist in achieving reasonable safety of all persons and materials during the process of, or as the result of, rigging, lifting or moving of loads.

1.3 Modifications and Exemptions. In cases of practical difficulties, unnecessary hardships or new developments, exceptions to the literal requirements may be granted by the enforcing authority to permit the use of other devices or methods, but only when it is clearly indicated that the equivalent protection is thereby secured.

1.4 Limitations. This standard does not apply to the training required to be qualified as an operator of powered equipment. This standard does not apply to transportation of loads or maintenance or repair of powered or manual hoists, cranes, winches or other hoisting equipment.

NOTE: While the qualified rigger is required to know the basic principles and limits of lifting and hoisting equipment, they are expected to rely on qualified operators, mechanics, suppliers, engineers, managers and others involved for valid information, and for competent performance by these other persons in their respective roles. For instance, a rigger may be responsible to determine loads and the farthest radius of a pick, but then must rely on a crane operator to know the safe crane capacity for the configuration and setup of that crane. This principle also applies to operators of hoists, winches, helicopters, etc. Similarly, if a rigger determines that a 5-ton picking beam is needed, they can rely on a manager, an engineer who provides specifications or a supplier who provides a product for the rigger’s use.

1.5 Mandatory and Advisory Rules. Mandatory rules of this standard are characterized by the word “shall.” If a rule is of an advisory nature, it is indicated by the word “should,” or is stated as a recommendation or commentary. The Appendixes are advisory.

1.6 Equivalent. The word “equivalent” in this standard shall mean alternative materials, designs or features that will provide an equal degree of strength and safety.

2. DEFINITIONS

2.1 ANSI. American National Standards Institute

2.2 Attachment. A device other than conventional forks or load backrest extension, mounted permanently or removably on the elevating mechanism of a fork truck for handling the load. Popular types are fork extension clamps, rotating devices, side shifters, load stabilizers, rams and booms.

2.3 Cable. A term loosely applied to wire ropes, wire strands, manila ropes and electrical conductors.

2.4 Clip. A fitting used to clamp two parts of wire rope (also known as wire rope clip, wire rope clamp).

2.5 Competent Person. One who is capable of identifying existing and predictable hazards in the surroundings or working conditions that areunsanitary, hazardous or