Setting the Standard for Safety

ASSE is responsible for several American National Standards Institute (ANSI) committees and projects. ASSE organizes the committees that develop and maintain the standard(s), ensures that the revision process is timely and in accordance with ANSI procedures and publishes the final product of the consensus process.

ASSE serves as secretariat for the following committees:

- Safety Requirements for Construction and Demolition Operations, A10
- Protection of Floor and Wall Openings, A1264
- Motor Vehicle Safety Operations, Z15
- Confined Spaces, Z117
- Lockout/Tagout and Alternative Methods, Z244
- Fall Protection, Z359
- Criteria for Accepted Practices in Safety, Health and Environmental Training, Z490
- Accepted Practices for Hydrogen Sulfide Training Programs, Z390
- Competence and Certification in the Safety Profession, Z590

ASSE is also the administrator for two U.S. Technical Advisory Groups (TAG) to the International Organization for Standardization (ISO) on fall protection and risk management.

What is the SDC?

ASSE’s Standards Development Committee (SDC) is the lead entity for the Society to participate globally in all aspects of standards development to expand the body of knowledge to protect people, property and the environment.

SDC Members
- David Coble, CSP
- Bill Greenwade, CSP
- Timothy Healey
- C. Gary Lopez, CSP, Chair
- George Pearson, CSP, ARM, Vice President, Council on Practices & Standards
- Robert Potts, CSP
- John Rabovsky, CSP, ARM
- Bryant Winterholer, P.E., CSP
- Tim Fisher, CSP, CHMM, ARM, CPEA (staff)

To learn more about ASSE’s standards development activities, contact Tim Fisher at tfisher@asse.org.
A10 ASC to Meet in July 2010
The ANSI A10 Accredited Standards Committee (ASC) for Construction and Demolition Operations will meet on July 13, 2010 at the International Brotherhood of Electrical Workers (IBEW) in Washington, DC.

Subgroup meetings will be held on July 12, 2010 and potentially on July 14, 2010. The subgroup meeting schedule will be provided upon request.

For more information, contact:

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A10.42 Standard Reaffirmed

The A10.42 standard establishes minimum criteria of knowledge and performance requirements for a qualified rigger in the construction industry. It 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.

Z359.6 Subcommittee Chair Provides Overview of Standard
Thomas Kramer, P.E., CSP, is chair of the Z359.6 subcommittee, which oversees the new standard, “Specifications and Design Requirements for Active Fall Protection Systems” (ANSI/ASSE Z359.6-2009). Kramer recently spoke with ASSE about how SH&E professionals can best incorporate the Z359.6 standard into their fall protection management programs. To read the full interview, click here.

Make Construction Safe with A10 Standards Package
With construction operations underway across the country, now is the time to invest in ASSE’s Construction Safety Standards Package. This special package includes 5 standards for one low price:

A10.6-2006: Safety & Health Program Requirements for Demolition Operations
A10.8-2001: Safety Requirements for Scaffolding
A10.12-1998 (R2005): Safety Requirements for Excavation
A10.13-2001: Safety Requirements for Steel Erection

Purchased separately, these standards would cost more than $260. Click here and take advantage of everything this standards package has to offer!

A10.32 Standard Under Revision

A10.32 takes into account the new advancements in personal fall protection that have developed over the last decade. It establishes performance criteria for personal fall protection equipment and systems used in construction and demolition operations and provides guidelines and recommendations for their use and inspection. The standard covers fall arrest, restraint, positioning, climbing, descending, rescue, escape and training activities, but it does not address lineman’s body belts, pole straps, window-washers’ belts, chest/waist harnesses or sports equipment. A10.32’s three appendices include illustrations of test torsos, gate-face load testing of snaphooks and carabiners and an example of a typical gate-side load testing of a snaphook and carabiner.


FPPS Assistant Administrator Provides Update on NFPA 654 Revision
Fire Protection Practice Specialty (FPPS) Assistant Administrator Walter S. Beattie, CSP, CFPS, CSHM, is a member of the NFPA 655 (Standard for Prevention of Sulfur Fires and Explosions), NFPA 654 (Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids) and NFPA 91 (Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists and Noncombustible Particulate Solids) standards committees.
Click here to read an interview with Beattie and learn how the revised NFPA 654 standard is expected to help guard against combustible dust hazards.

**Fall Protection Code 2.0 Includes 3 New Standards**

Version 2.0 of the Z359 Fall Protection Code includes three new standards:

**ANSI/ASSE Z359.6-2009**
Specifications & Design Requirements for Active Fall Protection Systems
This standard is intended for engineers with expertise in designing fall protection systems. It specifies requirements for the design and performance of complete active fall protection systems, including travel-restraint and vertical and horizontal fall arrest systems.

**ANSI/ASSE Z359.12-2009**
Connecting Components for Personal Fall Arrest Systems
This standard establishes requirements for the performance, design, marking, qualification, test methods and removal from service of connectors.

**ANSI/ASSE Z359.13-2009**
Personal Energy Absorbers & Energy-Absorbing Lanyards
This standard establishes requirements for the performance, design, marking, qualification, instructions, inspection, maintenance and removal from service of energy-absorbing lanyards and personal energy absorbers.


**Crane Safety Standards Package a Must-Have for Construction Season**

High-profile crane incidents that have occurred in the U.S. in recent years emphasize the importance of crane safety during the busy construction season.

ASSE’s Crane Safety Standards Package includes the following A10 standards:

**A10.8-2001**: Safety Requirements for Scaffolding
**A10.28-1998 (R2004)**: Safety Requirements for Work Platforms Suspended from Cranes or Derricks
**A10.31-2006**: Safety Requirements, Definitions & Specifications for Digger Derricks
**A10.33-1998 (R2004)**: Safety & Health Program Requirements for Multi-Employer Projects
**A10.42-2000**: Safety Requirements for Rigging Qualifications & Responsibilities

Click here to protect your workers today.

**Z117.1-2009 Standard & Comparison Document Available in One Convenient Combo Package!**

This special combination package includes the newly revised Z117.1-2009 standard plus the Z117 comparison document, which outlines the differences between the 1995, 2003 and 2009 versions of the Z117.1 standard.

Click here to order your special combo package today!
A10.16 Tech Brief
By Timothy R. Fisher, CSP, CHMM, ARM, CPEA
Director, Practices and Standards

A10.16-2009 Standard Now Available
With construction season in full swing, many employers have asked what they can do to better protect their employees from the hazards of tunnel, shaft and caisson construction.

When constructing tunnels, shafts and caissons, workers are often exposed to extreme conditions, such as reduced natural ventilation and light and the potential for fires, explosions, floods and earthquakes. Workers must also watch for loose soil, rock or fractured materials, moving loading or hauling equipment and flying debris. In addition, limited means of access and egress, risk of exposure to dangerous gases, such as hydrogen sulfide, and work conducted in confined spaces or compressed air or near electrical, drilling and blasting sites can pose serious hazards to workers.

ASSE’s new standard, “Safety Requirements for Tunnels, Shafts and Caissons” (ANSI/ASSE A10.16-2009), establishes safety requirements for the construction of tunnels, shafts and caissons. The standard addresses environmental control, related facilities, fire prevention, hoisting, haulage and electrical, drilling, blasting and compressed air work.

The A10 Accredited Standards Committee is currently working to have U.S. government agencies further recognize the A10.16 standard, especially as more construction projects are undertaken as part of the American Recovery and Reinvestment Act of 2009.

A10.16 Comparison Document Now Available
The A10.16 comparison document supplements the new standard, “Safety Requirements for Tunnels, Shafts and Caissons” (ANSI/ASSE A10.16-2009), and outlines differences between the new standard and previous versions.

The A10.16 standard establishes safety requirements for the construction of tunnels, shafts and caissons. It addresses environmental control, related facilities, fire prevention, hoisting, haulage and electrical, drilling, blasting and compressed air work.

When constructing tunnels, shafts and caissons, workers are often exposed to extreme conditions, such as reduced natural ventilation and light and the potential for fires, explosions, floods and earthquakes. Workers must also watch for loose soil, rock or fractured materials, moving loading or hauling equipment and flying debris. In addition, limited means of access and egress, risk of exposure to dangerous gases, such as hydrogen sulfide, and work conducted in confined spaces or compressed air or near electrical, drilling and blasting sites can pose serious hazards to workers.

A10.16 Recognition Examples

OSHA (2002)

OSHA (1998)

OSHR (1981)

State of Maryland

Government Resources

NIOSH FACE Reports
http://www.cdc.gov/niosh/face/In-house/full8709.html
http://www.cdc.gov/niosh/face/stateface/wy/92wy009.html

NIOSH: Confined Spaces
http://www.cdc.gov/niosh/topics/confinedspace/default.html

OSHA
Underground Construction: 1926.800

Underground Construction (Tunneling) Info
http://www.osha.gov/Publications/osha3115.html

Compressed Air: 1926.803

Electric Power: Enclosed Spaces & Working Underground
http://www.osha.gov/SLTC/etools/electric_power/enclosed_spaces_workunderground.html

Additional Resource

https://www.asse.org/cartpage.php?link=3812
Standards play a critical role in the field of occupational safety and health by providing a set of regulations and a level of excellence that must be met to improve safety, health and environmental (SH&E) management. ASSE’s recently reaffirmed standard, “Rigging Qualifications and Responsibilities in the Construction industry” (ANSI/ASSE A10.42-2000 (R2010)) establishes minimum criteria of knowledge and performance requirements for a qualified rigger in the construction and demolition industry.

The A10.42-2000 (R2010) standard is designed to assist in achieving reasonable safety of all people and materials during the process of, or as the result of, rigging, lifting or moving loads.

ASSE serves as the secretariat for the A10 Accredited Standards Committee on construction and demolition operations. The A10 standards serve as guides to contractors, labor and equipment manufacturers in the construction and demolition industry.

In addition, ASSE serves as secretariat for 10 other standards projects, ensuring that a timely revision process exists in accordance with ANSI procedures and publishes the final product. ASSE has published 60+ standards and has several in development.

Reaffirmed on March 24, 2010, the A10.42-2000 (R2010) standard establishes minimum criteria of knowledge and performance requirements for a qualified rigger in the construction industry. It 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 movement of loads.

**Additional Resources**

Rigging Addressed in CFR 1926.753

OSHA Proposed Rule for Crane Operations

NIOSH Case Studies
http://www.cdc.gov/niosh/stateface/ma/95ma014.html
http://www.cdc.gov/niosh/stateface/nj/92nj035.html

NIOSH Crane Safety Publication
http://www.cdc.gov/niosh/docs/2006-142/

Oil Sands Safety Association (OSSA)

U.S. Department of Energy Standard 1090-2004, (Ch. 15, Construction Hoisting & Rigging Equipment Requirements)

California Occupational Safety and Health Standards Board
http://www.dir.ca.gov/oshsb/properlyrigged15day.pdf

City of Philadelphia Ordinance

ASSE A10 Crane Safety Standards Package
https://www.asse.org/cartpage.php?link=a10cs

Crane Hazards & Their Prevention
https://www.asse.org/cartpage.php?link=4348

Construction Safety
https://www.asse.org/cartpage.php?link=10937

Construction Safety Management & Engineering
https://www.asse.org/cartpage.php?link=4401

Construction Safety Planning
https://www.asse.org/cartpage.php?link=9601

By Timothy R. Fisher, CSP, CHMM, ARM, CPEA
Director, Practices and Standards
A10.47 Tech Brief
By Timothy R. Fisher, CSP, CHMM, ARM, CPEA
Director, Practices and Standards

A10.47-2009 Standard Now Available
Increased road congestion, more and more vehicle miles traveled, an aging highway infrastructure—these have all led to widespread work zone activity on U.S. highways, and in turn, to injury risks and exposures for workers.

Although fatalities from motor vehicle crashes in work zones have decreased since 2005, workers engaged in construction, utility work, maintenance or repair activities on highways are exposed to risk of injury from:

- Movement of construction vehicles and equipment within work zones
- Passing motor vehicle traffic with high traffic volume and speeds
- Vehicle struck-by incidents
- Overturn, collision or being caught in running equipment
- Low lighting or low visibility
- Night work
- Inclement weather

Heightened public awareness and compliance with the Federal Highway Administration’s Manual on Uniform Traffic Control Devices (MUTCD), as well as with OSHA and state regulations, can help create safer highway work zones, but as employers nationwide prepare for the 2010 construction season, SH&E professionals want to know how they can also incorporate national voluntary consensus standards into work zone safety programs.

ASSE’s new standard, “Work Zone Safety for Highway Construction” (ANSI/ASSE A10.47-2009), establishes minimum requirements for the construction and maintenance of public and private highways and roads to:

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

The A10 Accredited Standards Committee is currently working to have U.S. government agencies recognize the A10.47 standard, especially as more projects are undertaken as part of the American Recovery and Reinvestment Act of 2009.

A10.47 Subcommittee Chair Discusses Work Zone Safety
Scott Schneider, CIH, is chair of the A10.47 subcommittee, which oversees the new standard, “Work Zone Safety for Highway Construction” (ANSI/ASSE A10.47-2009). Read a recent interview with Schneider to learn how the A10.47 standard can help you improve your highway construction safety practices this year.

Government Resources
FHWA Safety: Work Zones
http://safety.fhwa.dot.gov/wz/

FHWA: Work Zone Mobility & Safety Program

NIOSH: Highway Work Zone Safety
http://www.cdc.gov/niosh/topics/highwayworkzones/#genInfo

OSHA: Highway Work Zones & Signs, Signals & Barricades

OSHA: Work Zone Traffic Safety Quick Card

State of Oregon

Additional Resources
American Traffic Safety Services Association
http://www.atssa.com/

National Work Zone Safety Awareness Week 2010

National Work Zone Safety Information Clearinghouse
http://www.workzonesafety.org/
ANSI / ASSE Standards

New Standards

ANSI/ASSE A10.16-2009 Safety Requirements for Tunnels, Shafts & Caissons
ANSI/ASSE A10.25-2009 Sanitation in Construction
ANSI/ASSE A10.47-2009 Work Zone Safety for Highway Construction
Board of Environmental, Health & Safety Auditor Certifications (BEAC)
Performance & Program Standards for the Professional Practice of Environmental, Health & Safety Auditing
ANSI/ASSE Z117.1-2009 Safety Requirements for Confined Spaces
Z359 Fall Protection Code Version 2.0

Updates to the Code include 3 new standards:
* ANSI/ASSE Z359.6-2009 Specifications and Design Requirements for Active Fall Protection Systems
* ANSI/ASSE Z359.12-2009 Connecting Components for Personal Fall Arrest Systems
* ANSI/ASSE Z359.13-2009 Personal Energy Absorbers and Energy-Absorbing Lanyards
* Special Offer: 3-Pack Bundle of Z359.6, Z359.12 & Z359.13

ANSI/ASSE Z490.1-2009 Criteria for Accepted Practices in SH&E Training

Slips & Trips Compendium

A10 (Construction & Demolition Ops.)

ANSI/ASSE A10 Construction Safety Standards Package
ANSI/ASSE A10 Crane Safety Standards Package
ANSI/ASSE A10.3-2006 Powder-Actuated Fastening Systems
ANSI/ASSE A10.3-1995 Powder-Actuated Fastening Systems
ANSI/ASSE A10.4-2007 Personnel Hoists & Employee Elevators on Construction & Demolition Sites
ANSI/ASSE A10.4-2004 Safety Requirements for Personnel Hoists & Employee Elevators
ANSI/ASSE A10.5-2006 Safety Requirements for Material Hoists
ANSI/ASSE A10.5-1992 Safety Requirements for Material Hoists
ANSI/ASSE A10.6-2006 Safety & Health Program Requirements for Demolition Operations
ANSI/ASSE A10.6-1990 (R1998) Safety Requirements for Demolition Operations
ANSI/ASSE A10.8-2001 Safety Requirements for Scaffolding
ANSI/ASSE A10.9-1997 (R2004) Safety Requirements for Concrete & Masonry Work
ANSI/ASSE A10.11-1989 (R1998) Safety Requirements for Personnel & Debris Nets (withdrawn)
for Excavation

ANSI/ASSE A10.13-2001 Safety Requirements for Steel Erection

ANSI/ASSE A10.14 Fall Protection Systems for Construction & Demolitions (Withdrawn)


ANSI/ASSE A10.16-2009 Safety Requirements for Tunnels, Shafts & Caissons


ANSI/ASSE A10.16-1995 (R2001) Safety Requirements for Tunnels, Shafts & Caissons

ANSI/ASSE A10.17-2006 Safe Operating Practices for Hot Mix Asphalt Construction

ANSI/ASSE A10.18-2007 Safety Requirements for Temporary Floor Holes, Wall Openings, Stairways & Other Unprotected Edges

ANSI/ASSE A10.18-1996 Safety Requirements for Temporary Floor Holes, Wall Openings, Stairways & Other Unprotected Edges

ANSI/ASSE A10.19-2008 Safety Requirements for Pile Installation & Extraction Operations


ANSI/ASSE A10.22-2007 Safety Requirements for Rope-Guided & Nonguided Workers’ Hoists


ANSI/ASSE A10.24-2006 Roofing Safety Requirements for Low-Sloped Roofs

ANSI/ASSE A10.25-2009 Sanitation in Construction


ANSI/ASSE A10.28-1998 (R2004) Safety Requirements for Work Platforms Suspended from Cranes or Derricks

ANSI/ASSE A10.31-2006 Safety Requirements, Definitions & Specifications for Digger Derricks

ANSI/ASSE A10.31-1995 Safety Requirements, Definitions & Specifications for Digger Derricks

ANSI/ASSE A10.32-2004 Fall Protection Systems for Construction & Demolition Operations


ANSI/ASSE A10.34-2001 (R2005) Protection of the Public on or Adjacent to Construction Sites


ANSI/ASSE A10.38-2000 (R2007) Basic Elements of an Employer’s Program to Provide a Safe & Healthful Work Environment


ANSI/ASSE A10.40-2007 Reduction of Musculoskeletal Problems in Construction


ANSI/ASSE A10.44-2006 Control of Energy Sources (Lockout/Tagout) for Construction & Demolition Operations

ANSI/ASSE A10.46-2007 Hearing Loss Prevention for Construction & Demolition Workers

ANSI/ASSE A10.47-2009 Work Zone Safety for Highway Construction

A1264 (Walking/Working Surfaces)


A1264.1-2007 Safety Requirements for Workplace Walking/Working Surfaces & Their Access; Workplace
**Floor, Wall & Roof Openings; Stairs & Guardrails Systems**

ANSI/ASSE A1264.1-1995 (R2002) Safety Requirements for Workplace Floor & Wall Openings, Stairs & Railing Systems

ANSI/ASSE A1264.2-2006 Standard for the Provision of Slip Resistance on Walking/Working Surfaces


**OSHA**

OSHA Standards Digest, 2006 Edition


OSHA Standards for Construction Industry, 29 CFR Part 1926 (Book Version)


**Z359 (Fall Protection/Prevention)**

Z359 Fall Protection Code Version 2.0

ANSI/ASSE Z359.6-2009 Specifications & Design Requirements for Active Fall Protection Systems

ANSI/ASSE Z359.12-2009 Connecting Components for Personal Fall Arrest Systems


3-Pack Bundle of Z359.6, Z359.12 & Z359.13

ANSI/ASSE Z359.0-2009 Definitions & Nomenclature Used for Fall Protection & Fall Arrest

ANSI/ASSE Z359.1-2007 Safety Requirements for Personal Fall Arrest Systems, Subsystems & Components

ANSI/ASSE Z359.2-2007 Minimum Requirements for a Comprehensive Managed Fall Protection Program

ANSI/ASSE Z359.3-2007 Safety Requirements for Positioning & Travel Restraint Systems

ANSI/ASSE Z359.4-2007 Safety Requirements for Assisted-Rescue & Self-Rescue Systems, Subsystems & Components


**Additional Standards**

ANSI/PMMI B155.1-2006 Safety Requirements for Packaging Machinery & Packaging-Related Converting Machinery

ANSI/AIHA Z10-2005 Occupational Health & Safety Management Systems


ANSI Z87.1-2003 Occupational & Educational Eye & Face Protection Devices (for historical purposes only)

ANSI Z87.1-1989 (R1998) Practice for Occupational & Educational Eye & Face Protection (for historical purposes only)

ANSI/ASSE Z117.1-2009 Safety Requirements for Confined Space

ANSI/ASSE Z117.1-2003 Safety Requirements for Confined Spaces

ANSI/ASSE Z117.1-1995 Safety Requirements for Confined Spaces (for historical purposes only)


ANSI/ASSE Z244.1-2003 Control of Hazardous Energy--Lockout/Tagout & Alternative Methods

ANSI/ASSE Z390.1-2006 Accepted Practices for Hydrogen Sulfide Safety Training Programs


ANSI/ASSE Z490.1-2009 Criteria for Accepted Practices
in SH&E Training

ANSI/ASSE Z490.1-2001 Criteria for Accepted Practices in SH&E Training (for historical purposes only)

ANSI/ASSE Z590.2-2003 Criteria for Establishing the Scope & Functions of the Professional Safety Position