

Consensus Standards Improve Your OSH Performance

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What are we talking about today?

Key Questions:

- How do OSH professionals use consensus standards?
- What is the relationship between industry consensus standards and regulatory standards?
- What are some common issues and concerns with using these standards?

What are we talking about today?

Our Agenda

Learning Objectives

- Review ANSI/ASSP voluntary national consensus standards and how they are used to mitigate OSH hazards and exposures
- Develop capabilities to use these standards to identify work-related hazards and exposures and hazardous working conditions
- Explain the relationship between consensus standards and federal regulations, and develop an understanding of how to coordinate your efforts related to them

What do we use to form the basis for decisions?



What is a consensus standard?

Voluntary consensus standards are guidance documents that reflect the reflect the collaborative expertise of member organizations and representatives

The resources are developed through a *rigorous* process and must be approved

How are standards developed?



Topic is approved / may begin with a tech report



Committee is selected



Document is written



Committee votes / input is provided / document is edited



Committee
approves –
secretariat seeks
ANSI approval



Every 5 years – reviewed

May be revised or reaffirmed

Important – KNOW the YEAR of the standard you are referencing – it should be current

Role of a Standards Developing Organization

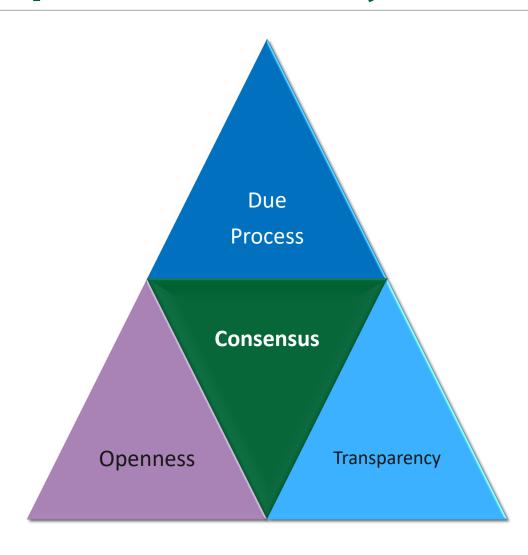
- American Society of Safety Professionals (ASSP)
 - ASSP manages the process accredited by ANSI and operates under ANSI requirements
 - Committee representatives
 - from industry, academia, government, insurance, etc.
 - may include non-ASSP members or OSH professionals
 - ASSP works to verify the ANSI "Essential Requirements" (procedures) are met and consensus is reached
 - Raise awareness on the use and value of standards
 - Promote implementation of standards

What is the role of ANSI?

- Provide oversight and process/procedures for all standard development organizations to follow including:
 - Committee balance
 - Ballot process
 - Comment resolution processes
- If all processes and procedures are followed, the organization submits paperwork for ANSI approval

If you see the ANSI approval on any standard, you can be confident you are referencing a consensus standard

Cardinal Principles of the ANSI System





How to Interpret a Standard Name

- ANSI/ASSP Z117.1-2016 Safety Requirements for Entering Confined Spaces
 - ANSI Approval body
 - ASSP Secretariat
 - Z117.1 Number associated with the standard
 - 2016 Year published
 - Safety Requirements for Entering Confined Spaces topic

Standards and More Standards...

In the U.S. alone, there are more than 95,000 recognized standards

These documents are being developed by

- more than 450 standards developing organizations (SDOs), with the twenty largest of these organizations producing approximately 80% of the standards
- at least 150 consortia
- hundreds of committees addressing the technical requirements of standards

Key Players in Standards Development

ANSI	American National Standards Institute – coordinating body
ASME	American Society of Mechanical Engineers
ASSP	American Society of Safety Professionals
ASTM	American Society of Testing and Materials
ISEA	International Safety Equipment Association
NFPA	National Fire Protection Association

Tech Reports





Registered with ANSI

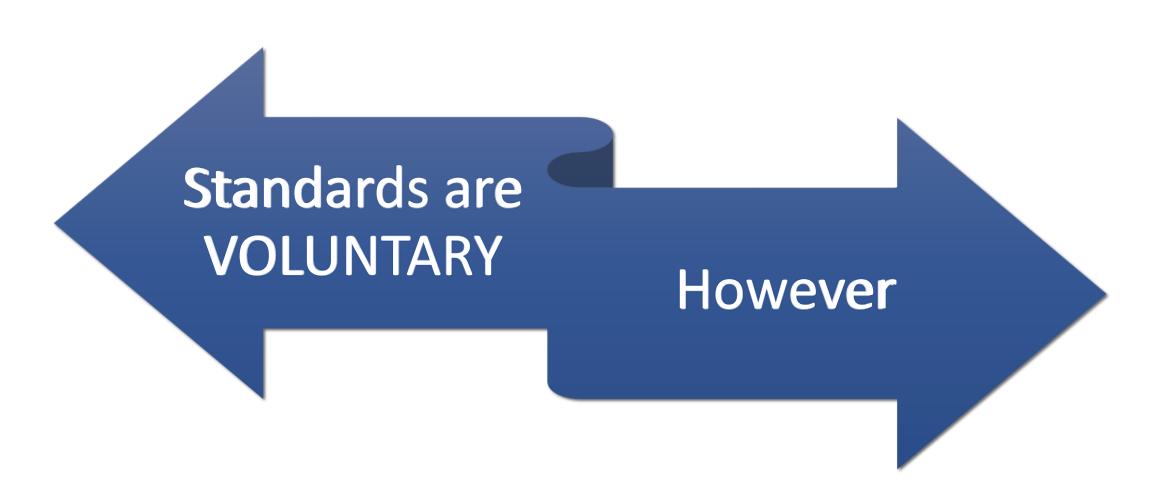
Not a standard - no "shall" statements



Provides guidance

- What is it?
 - Quicker to develop
 - Provides guidance where no standard exists
 - Recommendations to improve a newlyidentified safety aspect
 - TR Z15.3 Management practice for the safe operation of partially and fully automated motor vehicles
 - May be a pre-curser to a standard
 - Z590.3 Prevention thru Design

Compliance and Enforcement



ANSI Standards

• The following language is included in almost all ANSI standards:

"The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether he/she has approved the standards or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards."

National Voluntary Consensus Standards

How they are developed

How they are used

Philosophy

What is meant by voluntary if an accident occurs?

Relation to compliance (more to come on that)

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National Voluntary Consensus Standards Who Cares???

How are these standards used?

Are these standards used only for litigation?

How are such standards used by OSHA and other regulatory agencies?

Why should OSH Professionals be interested and hopefully participate on committees?

Standards vs Law



Simply claiming to meet "OSHA Standards" or "European Standards" may be a *negative* for many knowledgeable users who are aware laws are slow to change



ANSI standards, as mentioned, go beyond regulatory requirements



Note: it is critical to KNOW the version of the standard (year) referenced

Maintain but do not use old standards
Understand the differences in
requirements of the new revisions

How Standards Impact the Profession

Continually challenge and improve the body of knowledge

Go beyond regulations (that are slow to change)

To be used as a reference to support occupational safety and health (OSH) professionals in their role to protect workers

May be used for legal cases

Augment regulations (e.g. Z15.1 and FMCSR)

Promote standardization



The Role of Government

- In the U.S., no single federal government agency has control over national voluntary consensus standards.
 - Each government agency determines which standards meet its needs. (NIST National Institute of Standards and Technology overall coordinator).
 - An agency is responsible for determining whether a private sector standard already exists that is appropriate for its needs.
 - If so, they will use the private sector standard.
 - If not, the agency is expected to work with the private sector to develop the needed standard.

ASSP Standards Secretariats (Administrator)

A10 - Construction and Demolition Operations

A1264 – Floors and Walkways (Slips and Trips)

Z9 - Ventilation

Z15 - Motor Vehicle Operations Z117 – Confined Spaces

Z244 – Lockout/Tagout (protective equipment)

Z359 – Fall Arrest/Fall Protection

ASSP Standards Secretariats (cont'd...)

Z10 OSHMS (Safety Management Standard)

Z490 (Safety and Health Training)

Z390 Hydrogen Sulfide Training (H2S)

Z590 – The Safety Professional ISO TC 262 Risk Management (ISO 31000) ISO TC 283 – Occupational Health & Safety Management

ISO 45001

More Touch Points

Know your clientele – these people know the difference between standards and the law

Ways to connect – writing technical materials, participation at US safety and health events

YOU need to know the difference between the standards and the law – know the different versions

Know the differences between certification, accreditation, and third-party verification

Let's talk Management Systems

ANSI/ASSP/ISO 45001-2018

Occupational Health and Safety Management Systems

ANSI/ASSP Z10.0-2019

Occupational Health and Safety Management Systems

Global Toll

- 2.3 million people killed by work accidents and disease
- 6,300 deaths per day (one every 15 seconds)
- 317 million non-fatal work accidents
- 160 million people with occupational disease
- ~ 4% of world GDP = work accidents and diseases

Source: ILO

ISO 45001

The clauses map those in other international standards:

- Scope
- Normative References
- Terms and definitions
- Context of the organisation
- Leadership [and worker participation]
- Planning
- Support
- Operation
- Performance evaluation
- Improvement

Z10-2019

- 1. Scope, Purpose and Application
- 2. References
- 3. Definitions
- 4. Context of the Organization Strategic Considerations
- 5. Management Leadership and Worker Participation
- 6. Planning
- 7. Support
- 8. Implementation and Operation
- 9. Evaluation and Corrective Action
- 10. Management Review

Annex A – ANSI/ASSP Z10.0 Explanatory and Advisory Text Annex B – Bibliography

Differences – ISO 45001 Versus Z10

Please review this website. OSHA put out this publication showing some of the differences with the applicable voluntary national consensus standards.

It shows some of the primary differences and applications.

https://www.osha.gov/shpguidelines/docs/Crosswalk_to_Voluntary_OSHA_Standards_7-3-18.pdf



Questions?