A close-up, grayscale image of a wolf's face, showing its eyes, nose, and mouth. The wolf is looking directly at the camera with a serious expression. The image is slightly blurred, giving it a soft, ethereal quality.

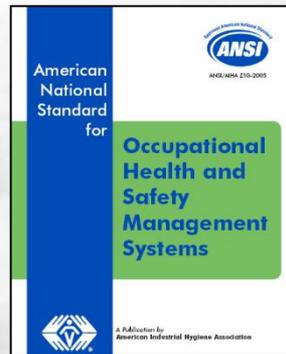
# Occupational Health and Safety - Enhancing Your Management System

John Thoms

Wolf Management Systems

# Introduction

- In the United States, two safety management programs are gaining momentum and getting international attention: OHSAS 18001 Specification and the ANSI/AHIA Z10 Standard



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# Choices



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# Market Drivers

- In response to international customer demand for a universal recognizable occupational health and safety management system standard
- Need for health and safety management system that could be audited and certified
- Rising health and safety costs
  - Insurance
  - Compensation
  - Direct
  - Indirect
- Increased regulation



# Economics

- National Safety Council Estimated Average 2011 Comprehensive Cost by Injury Severity
  - Death \$4,459,000
  - Incapacitating injury \$225,100
  - Non-incapacitating evident injury \$57,400
  - Possible injury \$27,200
  - No injury \$2,400



# Statistics

- Average number of reportable injuries were 35 injuries per 1,000 employees in 2011
- The median number of lost work days 11 days
- Musculoskeletal disorder (MSD) cases accounted for 33 percent of all injury and illness cases in 2011
- The proportion of injuries and illnesses was highest among workers age 45-54 — accounting for 26 percent of the total cases in 2011



# OSHA 300 Log

OSHA's Form 300A (Rev. 01/2004)

Year 2009



## Summary of Work-Related Injuries and Illnesses

Department of Labor

Occupational Safety and Health Administration

Form approved OMB no. 1218-0175

All establishments covered by Part 1904 must complete this Summary page, even if no injury or illness occurred during the year. Remember to review the Log to verify that the entries are

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the log. If you had no cases write "0."

Employers, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 for its equivalent. See 29 CFR 1904.35, in OSHA's Federal Register rule, for further details on the access provisions for these forms.

### Number of Cases

Total number of deaths	Total number of cases with days away	Total number of cases with job transfer or restriction	Total number of other recordable
0	1	2	1
(G)	(H)	(I)	(J)

### Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
15	19
(K)	(L)

### Injury and Illness Types

Total number of...	(M)	(N)	(O)
(1) Injury	3	(4) Poisoning	0
(2) Skin Disorder	1	(5) Hearing Loss	0
(3) Respiratory Condition	0	(6) All Other Illnesses	0

Post this Summary page from February 1 to April 30 of the year following the year covered by

Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instruction, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about this estimate or any aspect of this data collection, contact: US Department of Labor, OSHA Office of

### Establishment information

Your establishment name ByGally AirCare

Street 1234 Safoplace Lane

City Anywhere State USA Zip

Industry description (e.g., Manufacture of motor truck trailers)  
DaDruggart to warfighter

Standard Industrial Classification (SIC), if known (e.g., SIC 3715)

R North American Industrial Classification (NAICS), if known (e.g., 336212)

### Employment information

Annual average number of employees 1600

Total hours worked by all employees last year 3,040,000

Sign here Mr. BigWig

**Knowingly falsifying this document may result in a fine.**

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

Company executive Title

Phone Date



# International Guidance OHSAS 18001

# OHSAS 18001 Background

- OHSAS 18001 2007 was developed by the OHSAS Project Group, a consortium of 43 organizations from 28 countries. This consortium includes national standards bodies, registrars (certification bodies), OH&S institutes, and consultants
  - The International Organization for Standardization (ISO) opposed the Ad Hoc Grassroots effort to develop a Safety and Health Standard outside the ISO consensus standard process
  - Opposed by American National Standards Institute (ANSI) which developed an equivalent American Standard (Z-10).



# OHSAS 18001 Timeline

- 1992 British Health & Safety Commission publishes management of health and safety at work
- 1993 British Health and Safety Executive publishes HS(G)65, successful health and safety management
- 1996 British standard BS 8800 launched, used as model OHSM
  - 1999 OHSAS 18001 Specification published based on BS8800
  - 2007 OHSAS 18001 Specification republished as a Standard in July 2007 replacing the OHSAS 18001 Specification adding increased emphasis on Health



A close-up, high-contrast photograph of a white dog's face, focusing on its eyes and nose. The dog's fur is bright white, and its eyes are dark and intense. The nose is large and dark. The text "US Standard ANSI Z10" is centered over the dog's face in a black, serif font.

**US Standard ANSI Z10**

# ANSI/AIHA Z-10

- OHSAS 18001 is based on British Standard 8800
- ANSI Z10 is a US-based model for OHS Systems (better represents US stakeholders)
- ANSI Z10 is compatible with the ISO Quality (ISO 9001) and Environmental (ISO 14001) management system standards
- US input into possible future ISO OHS standard



# ANSI/AIHA Z10 Timeline

- American Industrial Hygiene Association (AIHA) approved as Secretariat - 1999
- American Society of Safety Engineers (ASSE) Fights Need - Mid 1999
- AIHA Wins - Jan 2000
- Committee formed mid 2000
- Committee Starts to Meet - Feb. 2001
- ANSI approval Specification on July 25, 2005
- Revised ANSI Z10 – 2012 Standard approved June 27, 2012



# **Key Features of OHSAS 18001 and ANSI/ AIHA Z10**

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# OHSAS 18001 & ANSI Z10

<b>Characteristics</b>	<b>OHSAS 18001</b>	<b>ANSI/AIHA Z10 - 2012</b>
<b>Description</b>	International Health & Safety Guidance	American Health & Safety Standard
<b>Number of Participating Sites</b>	Estimated over 16,000 sites	
<b>Recognition</b>	Conformance Certifications offered by Several United States and European Registrars	Certification
<b>Endorsement</b>	Currently No International Accreditation Scheme for Registrars offering Registration/Certifications	United States Only
<b>Years in Existence</b>	Since April 1999	Since July 2005



# OHSAS 18001 & ANSI Z10

<b>Characteristics</b>	<b>OHSAS 18001</b>	<b>ANSI/AIHA Z10 - 2012</b>
<b>Assessment Cost</b>	Cost of registration and surveillance audits. Similar to ISO 14001 and ISO 9001 registration/certification costs.	Similar to OHSAS 18001
<b>Number of Requirements</b>	18 Major Elements	29 Sub Elements
<b>Minimum Performance Requirements</b>	Meet required management system elements of standard but no minimum performance requirement or compliance threshold	Same as OHSAS 18001



# OHSAS 18001 & ANSI Z10

<b>Characteristics</b>	<b>OHSAS 18001</b>	<b>ANSI/AIHA Z10 - 2012</b>
<b>Auditors</b>	Certified Health and Safety (H&S) management system auditors	Training Management System Auditors
<b>Validation</b>	Recertification audit every three years	Recertification audit every three years
<b>Requirements</b>	International Consensus Requirements	United States Consensus Requirements
<b>Time Commitment</b>	One Year	One Year



# Elements of OHSAS 18001 and ANSI Z10

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# Elements

<b>ISO 14001</b>	<b>ANSI Z10 - 2012</b>
4. EMS Requirements	Occupational Health and Safety (OH&S) Management System Elements
4.1 General Requirements	1 Scope, Purpose and Application
4.2 Environmental Health and Safety (EHS) Policy	2 Definitions
4.3 Planning	3 Management Leadership and Employee Participation
4.3.1 EHS Aspects	4 Planning



# Elements

OHSAS 18001	ANSI Z10 - 2012
4.3.2 Legal & Other Requirements	4.1 Initial and Ongoing Reviews 4.2 Assessment and Prioritization
4.3.3 Management Arrangements and Objectives	4.3 Objective
4.3.4 Management Program	4.4 Implementation Plans and Allocation of Resources
4.4 Implementation & Operation	5. Implementation and Operation
4.4.1 Responsibility and Authority, Structure and Responsibility	3.3.1 Responsibility and Authority



# Elements

OHSAS 18001	ANSI Z10 - 2012
4.4.2 Resources and Training, Awareness and Competence	5.2 Education, Awareness and Training
4.4.3 Communication	5.3 Communication
4.4.4 Management System Documentation	5.4 Documentation and Record Control Process
4.4.6 Design Control, Operational Control, Purchasing, Handling, Storage, Packaging, Preservation and Delivery, Servicing, Analysis of Data	5.1.3 Design Review and Management of Change
4.4.7 Emergency Preparedness Response	5.1.6 Emergency Preparedness



# Elements

OHSAS 18001	ANSI Z10 - 2012
4.5 Checking and Corrective Action	6 Evaluation and Corrective Action
4.5.1 Monitoring and Measurement	6.1 Monitoring and Measurement
4.5.2 Non Conformance	6.4 Evaluation and Corrective Actions
4.5.3 Records	5.4 Documents and Records Control
4.5.4 Management System Audit	6.3 Audits
4.6 Management Review	7 Management Review



# OHSAS 18001 - Challenges

- Originally published as a specification it was not a formal standard, an official British Standard, nor was it an official International Standard
- It does not state specific OH&S performance criteria
- Does not give detailed specifications for design of a management system
- No accreditation scheme based on OHSAS 18001
  - Certification bodies can only issue non-accredited certificates for OHSAS 18001 (e.g. Certificate of Conformance)
  - Cost of Conformance Certificates.



# OHSAS 18001 - Benefits

- Provides a flexible management system framework
- Completely Voluntary
- Allows organization to select from multiple recognition bodies
- Does not require specific performance threshold (i.e. TCIR and DART rates below peers)
  - Can have regulatory violations but still receive recognition.
- Aligned with ISO 9001 and ISO 14001
  - Integration of Existing Standards with Health and Safety easier.
- Internationally recognized.



# ANSI Z10 - Benefits

- Accepted as the preferred American safety standard
- Existing accreditation/certification scheme
- Largest number of registered companies
- May become reference standard for OSHA future regulations



# ANZI Z10 Challenges

- Not recognized as international standard
- OHSAS 18001 preferred standard overseas
- Competes with OHSAS 18001 in US market place
- Elements do not directly align with ISO 9001/14001 scheme



# Spoiler Alert

- ISO Project Committee (PC) 283, *Occupational health and safety management systems - Requirements.*
- British Standards Institute Chair
- First meeting was held 21-25 October 2013 in London, United Kingdom
- Tasked with transforming OHSAS 18001 into an ISO standard **ISO 45001 (Health & Safety)**



# Management Talking Points

- Government clients likely to require conformance in the future
- Competitors already prepositioned by adopting Z10/OHSAS 18001 early
- Current injury/illness rates higher than your peers
- Quality means zero tolerance for preventable injuries
- Cost avoidance likely to exceed incremental cost increase over current management systems requirements

# Summary

- Gain Competitive Advantage
- Recognize benefits now rather than later
- OHSAS 18001/Z10 can jump start anticipated future conformance with developing ISO *Occupational health and safety management systems – Requirements ISO 45001 (Health & Safety) Standard*



**Questions?**  
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# About the Presenter

- Founder and Principal Consultant of Wolf Management Systems
- Former Program Manager for one of the Secretary of Defense's major safety programs
- Prior Quality and EHS manager for one of the Top 100 defense contractors and Chairperson for SRI Registrars Advisory Committee
- Retired ISO 9001/ISO 14001 Auditor for American Quality Assessors