



Amphenol

ISO 45001 Certification Process

Erika Frank, CHMM, ASP
EHS & Sustainability Manager, Americas
Amphenol Corporation

Sustainability

| Amphenol | | Sustainability |
|--------------------------|--------------|--|
| Evolution of OH&S MS | | |
| Year | System | Focus |
| 1987 (2008) (2015) | ISO 9001 | Quality; meeting customer expectations and product specifications; certifiable |
| 1996 (2004) (2015) | ISO 14001 | Environment; managing environmental aspects and impacts; certifiable |
| 1996 | BSI 8800 | Occupational health and safety; non-certifiable guidance document |
| 1999 (2007) | OHSAS 18001 | Occupational health and safety; certifiable |
| 2001 (2009) | ILO OHS/2001 | Occupational health and safety; non-certifiable guidance document |
| 2005 (2012) | ANSI Z10 | Occupational health and safety; certifiable |
| 2018 | ISO 45001 | Occupational health and safety; certifiable |

| Amphenol | | Sustainability |
|---|--|---|
| Comparison | | |
| ANSI Z10:2012 | OHSAS 18001:2007 | ISO 45001:2018 |
| US National Consensus standard | BSI-owned, EU consensus standard | International consensus standard |
| Z10 Committee: US industries, industry trade groups, labor, agencies, standard setting bodies | OHSAS Project Group: Consortium of 43 organization from 28 countries, chaired by BSI | TC 283: 70 participating members worldwide, chaired by BSI |
| Gaining recognition, can be used for accredited certification | Internationally recognized, could be used for accredited certification | Internationally recognized, OHSAS certificants have until March 2021 to get certified |
| Elements compatible with ISO 14001, but some differences | Elements aligned with ISO 14001:2004 | Elements align with ISO 14001:2015 and ISO 9001:2015 |
| Has special significance to US as a national consensus standard | In absence of ISO standard, was the leading global standard | New! Leading international consensus standard |

3

Amphenol

Sustainability

What is an ISO Management System?

- Internationally agreed standard that sets the requirements for a management system
- Helps organizations identify, manage, monitor, and control issues in a holistic manner
- Intent: continual improvement





4




Amphenol

Sustainability

ISO 45001

Provides a framework to increase safety, reduce workplace risks and enhance health and well-being at work, enabling an organization to proactively improve its OH&S performance.



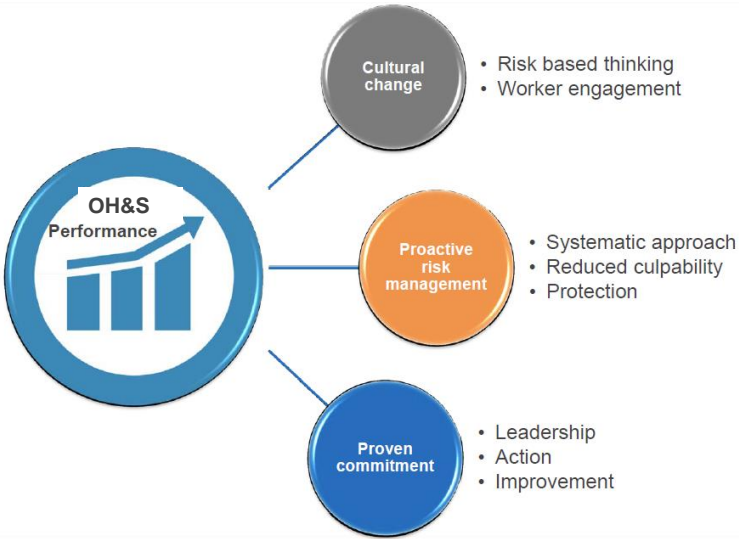


5





Amphenol

Sustainability

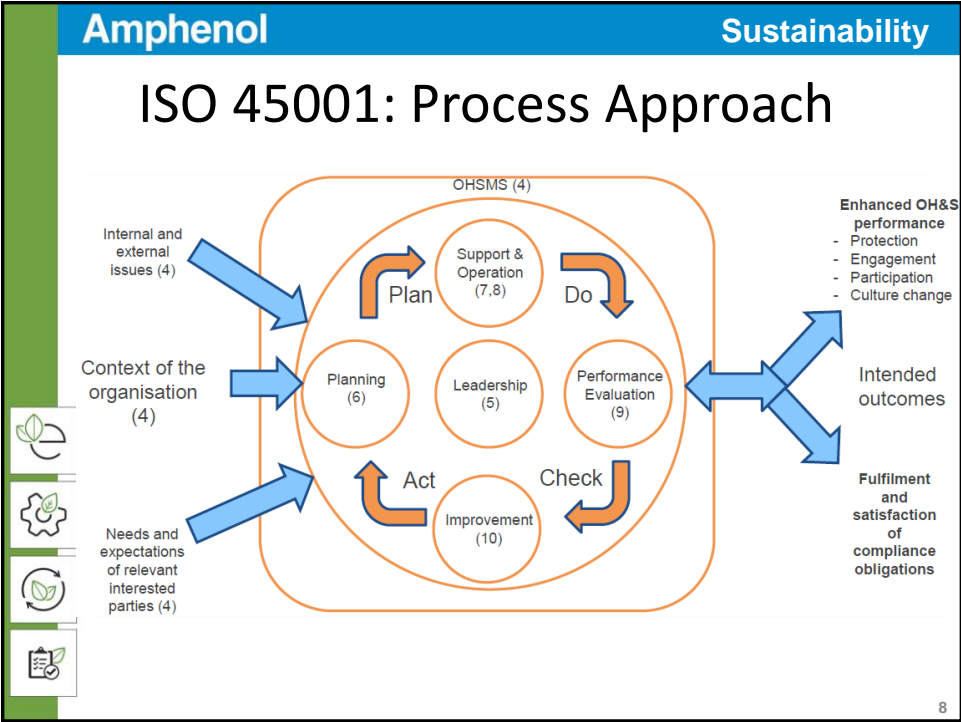
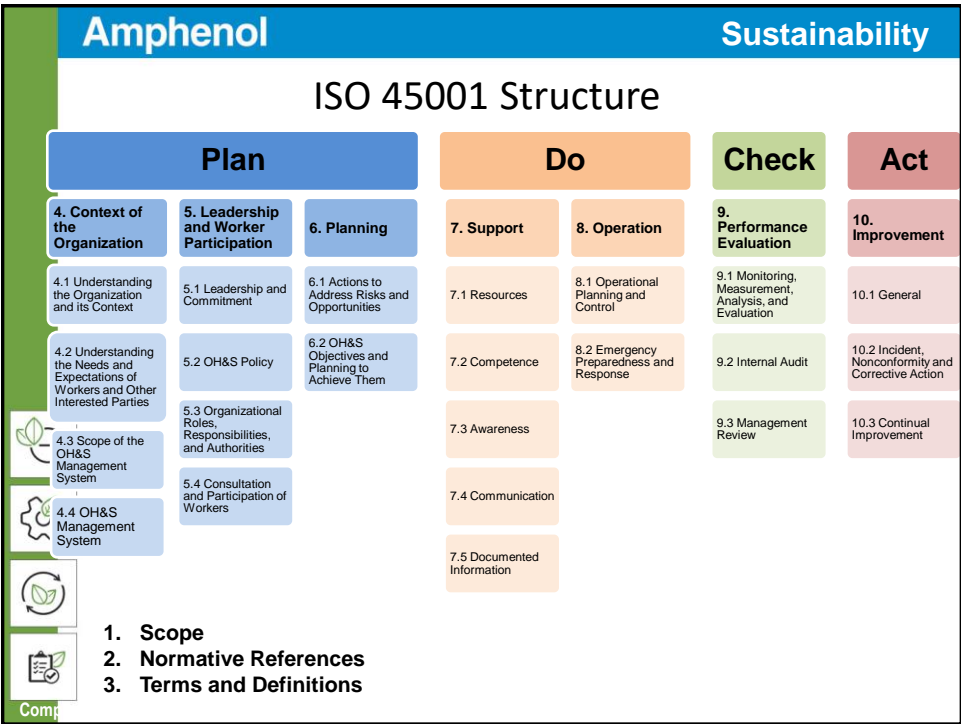
Why Implement Management Systems?

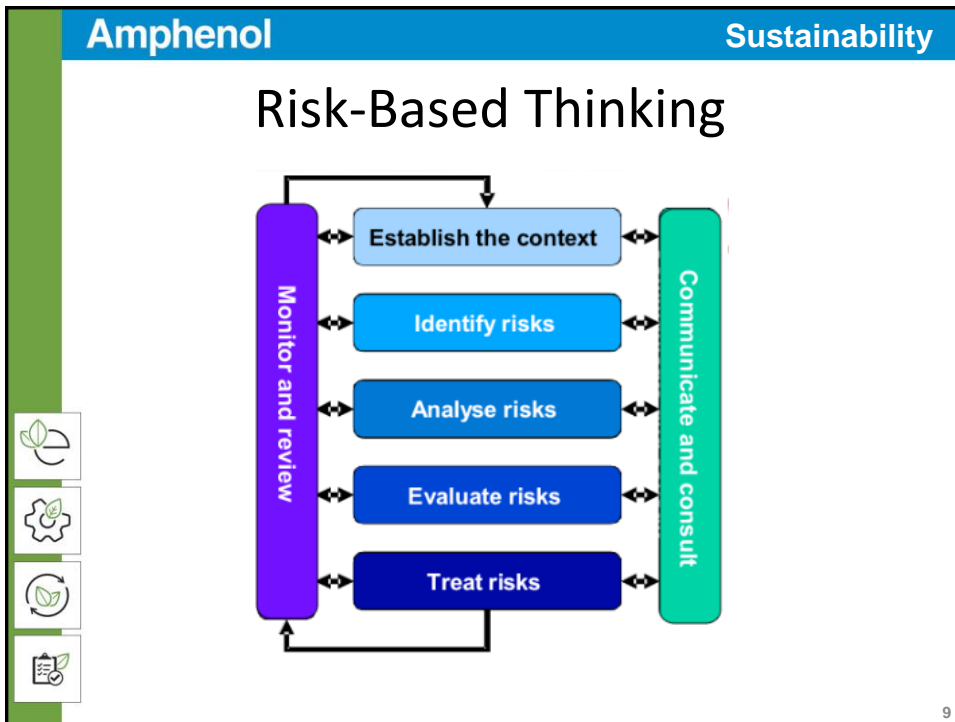


```
graph LR; A((OH&S Performance)) --- B((Cultural change)); A --- C((Proactive risk management)); A --- D((Proven commitment)); B --- B1[Risk based thinking]; B --- B2[Worker engagement]; C --- C1[Systematic approach]; C --- C2[Reduced culpability]; C --- C3[Protection]; D --- D1[Leadership]; D --- D2[Action]; D --- D3[Improvement]
```



6





Step 1: Learn

- Purchase a copy of the standard
- Get training
- Learn about the standard:
 - What is ISO 45001?
 - What is an OHSMS
 - Why consider ISO 45001 and what are the benefits?
 - What are the requirements?



Step 2: Gap Analysis

- Perform a gap analysis
 - Consultant
 - Checklist
- Perform a risk analysis
 - Identify hazards
 - Assess risks and opportunities
 - Determine controls



Step 3: Implementation Plan

- Determine OHSMS scope
 - Combined management system
 - Combined with other ISO standards
- Create a project plan
 - Schedule
 - Tasks
 - Resources



Step 4: Educate your Organization

- Achieve management buy-in
- All employees will need to be trained
- Train your internal auditors



Step 5: Design & Document

- Create or adjust your Health & Safety Manual
- Establish/enhance safety management processes
- Assure your documentation meets the requirements of the standard
 - OHS policy
- Establish internal audit process



ISO 45001 Documented Information

- 1) Scope of the OH&S MS
- 2) OH&S policy
- 3) Responsibilities and authorities for relevant roles
- 4) Risks and opportunities
- 5) Processes and actions to address risks and opportunities
- 6) Methodologies and criteria for the assessment of OH&S risks
- 7) Legal requirements and other requirements
- 8) OH&S objectives and plans to achieve them
- 9) Operational planning and control processes
- 10) Emergency response processes and plans
- 11) Maintenance, calibration or verification of measuring equipment

Evidence of:

- 11) Competence
- 12) Communications
- 13) Monitoring, measurement, analysis, performance evaluation results
- 14) Compliance evaluation results
- 15) Implementation of the audit program, audit results
- 16) Results of Management Reviews
- 17) Nature of incidents, nonconformities; corrective actions and results
- 18) Continual improvement



Step 6: Use & Improve the OHSMS

- Follow the procedures
- Collect records
- Make improvements to the system
- Establish objectives
- Audit OH&S Performance
- Hold a Management Review



Step 7: Achieve Registration

- Three types of conformance:
 1. Internal efforts to create an OHSMS that meets ISO 45001
 2. Self-declaration of conformance
 3. Third-party verified registration through a registrar
 - Select a registrar
 - Submit an application and fee
 - Establish audit frequency
 - Schedule on-site evaluation



| Amphenol | Sustainability |
|--|----------------|
| <h2>Step 8: On-site Evaluation</h2> <ul style="list-style-type: none"> • OHSMS Coordinator • Document review <ul style="list-style-type: none"> – OHSMS Manual – Records • Site observations <ul style="list-style-type: none"> – Housekeeping – Be prepared • Employee interviews • Closing meeting and audit report | |


| Amphenol | Sustainability |
|---|----------------|
| <h2>Evaluation Process</h2> <ul style="list-style-type: none"> • Audit report and findings <ul style="list-style-type: none"> – Major nonconformity – Minor nonconformity – Opportunities for improvement • Develop Corrective Action Plans <ul style="list-style-type: none"> – Root cause analysis – Where else does this apply? – Evaluate effectiveness of solution | |

Amphenol

Sustainability

Program Maintenance

- Get your certificate
- Regular Maintenance Audits
- Pay annual fees
- Recertification every three years
- Continual improvement!




The image shows a Lloyd's Register Certificate of Approval for Amphenol ICC. The certificate is issued to ISO 9001:2015, 9001:2015, 14001:2015, and 45001:2018. It is valid until 15/09/2023. The certificate is issued by Lloyd's Register Quality Assurance, Inc. for and on behalf of Lloyd's Register Quality Assurance Limited.

Amphenol

Sustainability

Questions?

Erika Frank
efrank@amphenol.com



The image shows a world map with the text "ISO 45001" overlaid on it. The map is colored with various shades of blue, green, and red, representing different regions or data points.