



AMERICAN SOCIETY OF  
**SAFETY PROFESSIONALS**

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**Working together for a safer, stronger future.**

# **Safety in the World of Standardization: What is Our Role?**

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# INTRODUCTION

WHERE ARE WE TODAY?



**"Think of me as your personal  
quality management system.  
You two need to integrate."**

**DO WE FIT  
TOGETHER?**

**REMEMBER**

*IT'S*  
**SAFETY, QUALITY  
& QUANTITY**  
*IN THAT ORDER*

**CAN WE  
FIT  
TOGETHER  
?**



# The World of ISO

International Organization for Standardization

# ISO STANDARDS

These are **documents** which provide **requirements, specifications, guidelines** or characteristics that can be used **consistently** to ensure that **materials, processes** and **services** are fit for their purpose.

# POPULAR ISO STANDARDS

- **9001**      **QUALITY MANAGEMENT**
- **14001**      **ENVIRONMENTAL MANAGEMENT**
- **22000**      **FOOD SAFETY MANAGEMENT**
- **26000**      **SOCIAL RESPONSIBILITY**
- **27001**      **SECURITY MANAGEMENT**
- **31000**      **RISK MANAGEMENT**
- **55001**      **ASSET MANAGEMENT**
- **45001**      **OCCUPATIONAL HEALTH AND SAFETY**





# **The Structure of an ISO Standard**

# CONTENTS OF AN **ISO STANDARD**

- **Introduction and front matter: Scope, Normative References, Terms and Definitions**
- **Context of the Organization**
- **Leadership**
- **Planning**
- **Support**
- **Operation**
- **Performance Evaluation**
- **Improvement**

# **ISO 9001:2015 & 45001:2018**

**Refer to Comparison Chart One**

# **DO I KNOW ABOUT ISO?**

## **GROUP EXERCISE:**

**Refer to Comparison Chart ONE.**

**Identify the sections in ISO 9001:2015 you would be comfortable with discussing at a implementation planning meeting in your company or with a client.**



# **ISO 55001 - ASSET MANAGEMENT SYSTEMS (AMS)**

# **ISO 55001:2014 ASSET MANAGEMENT**

**WHAT IS AN ASSET?**

**WHAT DOES THIS HAVE TO  
DO WITH SAFETY?**

# ISO 55001:2014 ASSET MANAGEMENT

**AN ASSET** is an item, thing, or entity that has potential or actual value to an organization

# ISO 55001:2014 ASSET MANAGEMENT

**ASSETS** may include physical items and infrastructure, people, financial, information/ knowledge, technology, and intangibles such as processes, brands, licenses/user rights, etc.



# ISO 55001:2014 ASSET MANAGEMENT

**CRITICAL ASSETS** have the potential to significantly impact the achievement of the organization's objectives.

**These include assets which can be safety or environment critical.**

# **ISO 55001:2014 ASSET MANAGEMENT**

**HOW DO WE HELP?**

# **ISO 55001:2014 ASSET MANAGEMENT**

- **Broaden our perspective to the business process level**
- **Check our “terminology” bias**
- **Find the areas of alignment and speak up!**
- **Demonstrate how our expertise can be a foundation for program development and evaluations.**

# **ISO 55001:2014 Sample Checklist**

**Refer to the Sample Checklist:  
Handout THREE**



# Risk Management Terminology

# TERMINOLOGY CHALLENGE

Does **CRITICALITY** indicate a level  
of **RISK** or **CONSEQUENCES**?

Criticality = Probability/Likelihood x  
Consequences

**CRITICALITY = RISK**

# **TERMINOLOGY CHALLENGE**

**Asset or business risk does not always have the same meaning as safety or environmental risk.**

**A highly critical asset or system does not necessarily mean it is also a high-risk item.**

**- Grahame Fogel and Petrus Swart**

# **ISO 55001 Evaluation: Case Study**

**A safety professional is asked to conduct a business process evaluation to improve operational efficiency and effectiveness.**

**The company starts with ISO 9001:2015 but the evaluation criteria is not embraced by management.**



# **ISO 55001 Evaluation: Case Study**

**The use of ISO 55001:2014 – Asset Management Systems is suggested.**

**This standard has gained momentum in the Petroleum and Utility industries.**

# **ISO 55001 Evaluation: Case Study**

**Refer to the Applied Checklist:  
Handout FOUR**

# ISO 55001 Evaluation: Case Study

## RESULTS

- There were **14** business process and management system gaps identified.
- There were **13** recommendations provided. These would also affect the company SHE management system(s).

# ISO 55001 Evaluation: Case Study

## RESULTS

**Several of the recommendations cited existing SHE processes which could be leveraged to improve operational effectiveness and efficiency.**

# PLAY IT SAFE OR CREATE YOUR ROLE





**Questions?**

# YOUR FEEDBACK IS IMPORTANT

Session Evaluations can be completed:

- On the Safety 2018 App
- Using the link in the email reminder you will receive at the end of each day