

# ISO 14001:2015

## WHAT DOES IT MEAN FOR YOU?

Practical Solutions  
for Transitioning  
Your  
Environmental  
Management  
System (EMS)

INTERNATIONAL  
STANDARD

**ISO  
14001**

Third edition  
2015-09-15

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**Environmental management  
systems — Requirements with  
guidance for use**

*Systèmes de management environnemental — Exigences et lignes  
directrices pour son utilisation*

# Topics

- ▣ Why Am I Here?
- ▣ ISO 14001:2015 Timeline
- ▣ Intro to ISO 14001
- ▣ Major Changes in a Nutshell
- ▣ Changes to the Standard
- ▣ Practical Implications
- ▣ Examples of Possible EMS Changes
- ▣ Proposed Project Management Steps
- ▣ Calendar

# Why Am I Here?

- ▣ My Boss Made Me!



# Why Am I Here?

▣ I LOVE DONUTS!





# Why Am I Here?

- ▣ I am a true tree hugger and want to save the earth!



# Why Am I Here?


Accounts: FCC (Adams), LL x Edit Profile | LinkedIn x John


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## John Scifres, CHMM


Environmental Health and Safety Specialist at  
Cornerstone Environmental, Health and Safety, Inc.  
Indianapolis, Indiana Area | Environmental Services

Previous EnerDel, DQE, Inc., United Airlines  
Education University of Louisville

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# Assumptions

- ▣ You have or are getting an EMS
- ▣ You plan to conform to ISO 14001:2015
- ▣ You have no idea what that means!





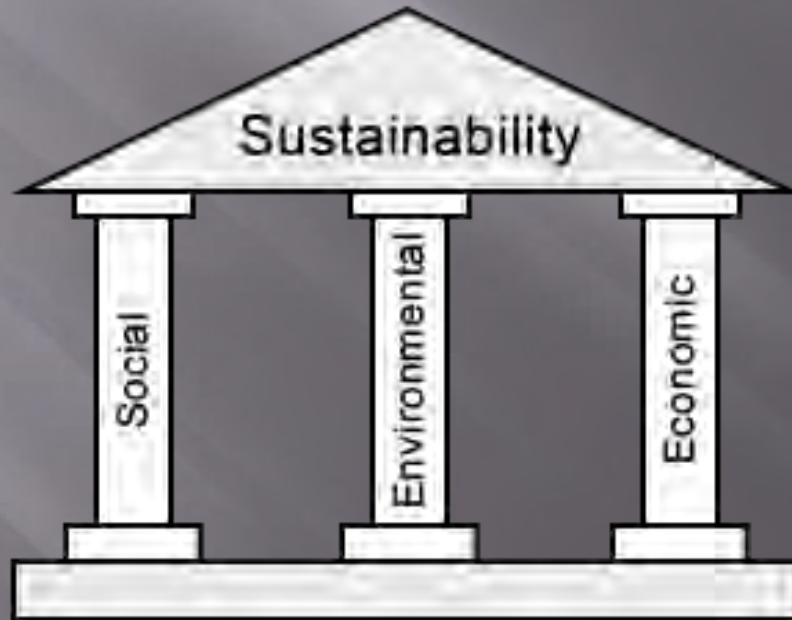
# ISO 14001:2015 Timeline

- ▣ September 2015 – Final Standard Published
- ▣ Transition your system within 3 years.
- ▣ Make sure your certifying body is accredited to the new standard as soon as possible.
- ▣ Plan for extra time on your audits to identify gaps. Gaps should not interfere with ISO 14001:2004 Certifications for 3 years.



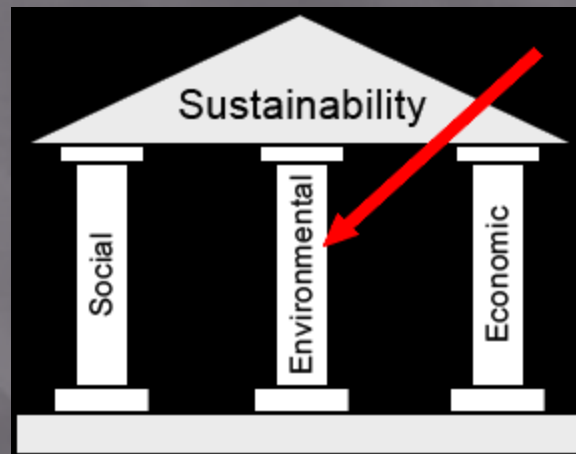
# Intro to ISO 14001

- ▣ Background
  - 3 pillars of SUSTAINABILITY (Definition)



# Intro to ISO 14001

- ISO 14001 is a “systematic approach to environmental management by implementing an EMS with the aim of contributing to the environmental pillar of sustainability” (*from the Introduction to ISO14001:2015*)



# Intro to ISO 14001

- ▣ Aim: Provide Framework to Top Management for:
  - preventing or mitigating adverse environmental impacts;
  - mitigating the adverse effect of environmental conditions on the organization;
  - assisting in the fulfillment of compliance obligations;
  - enhancing environmental performance;
  - using a life cycle perspective that can prevent environmental impacts from being unintentionally shifted elsewhere ;
  - achieving financial and operational benefits;
  - communicating environmental information to relevant interested parties.

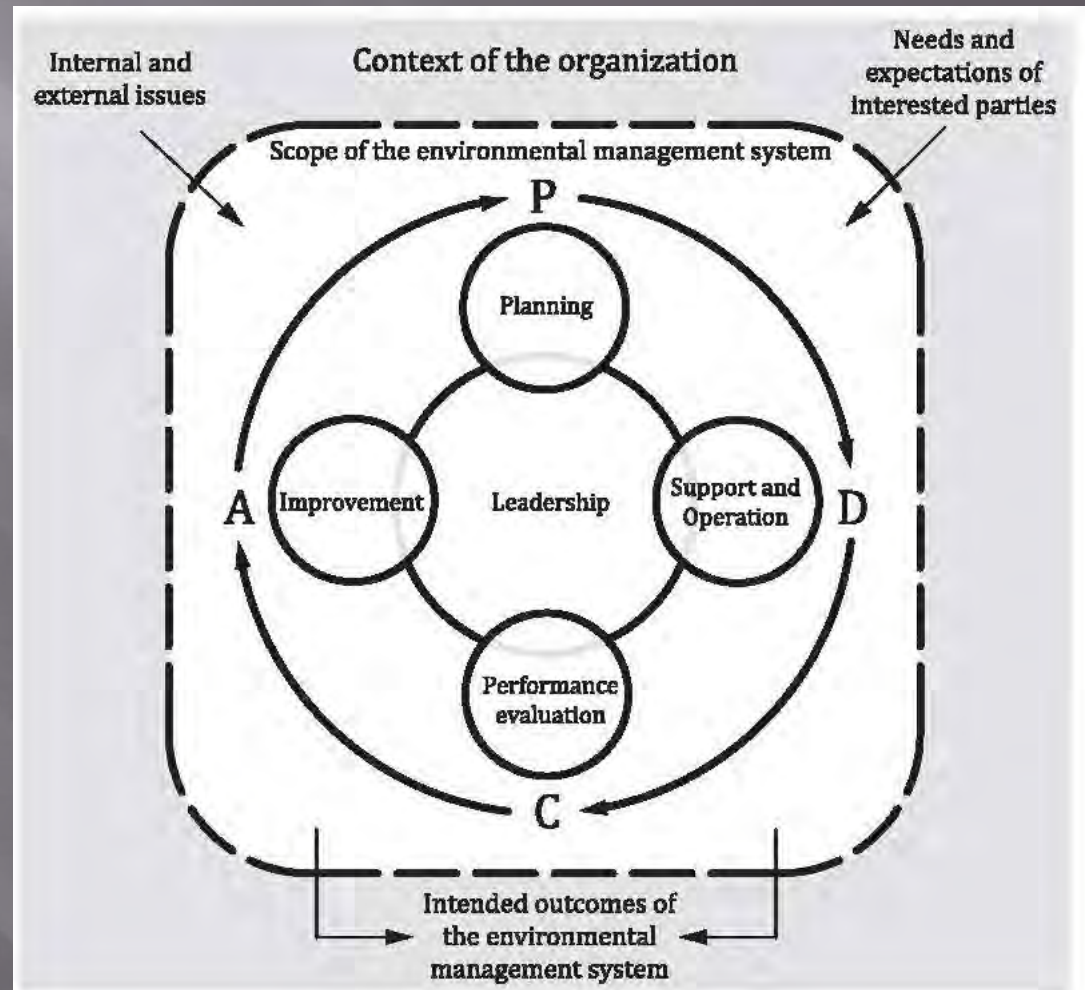
# Intro to ISO 14001

- ▣ Success Factors
  - Commitment – LED BY TOP MANAGEMENT
  - Leveraging Opportunities
  - Mitigating Risks
  - Integration of EMS into Organization
  - Incorporating the EMS into the overall Management Systems – One System for All
- ▣ Demonstration of successful implementation of ISO 14001 can assure interested parties that an effective EMS is in place



# Intro to ISO 14001

- ▣ PDCA:
  - Plan
  - Do
  - Check
  - Act



# Intro to ISO 14001

## ISO 14001:2015(E)

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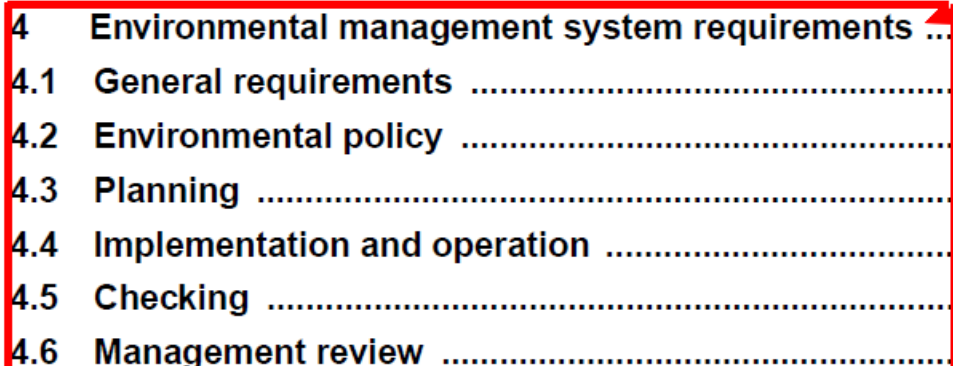
# Intro to ISO 14001

- ▣ Heart of the Requirements – 12 pages (6 in 2004)
  - 4 - Context
  - 5 - Leadership
  - 6 - Planning
  - 7 - Support
  - 8 - Operation
  - 9 - Performance Evaluation
  - 10 - Improvement

# Intro to ISO 14001

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# The Changes Nutshell

- ▣ More Top Management Requirements – They now have their very own section of the standard
- ▣ Organizational Context – Where am I now?
- ▣ Flexibility – Freedom or Just Enough Rope?
- ▣ Environmental Performance
- ▣ Supply Chain
- ▣ Sustainability – Environmental Pillar (Society, Economy)

# Changes to the Standard

- ▣ Structure – Annex SL
- ▣ Strategic Environmental Management
- ▣ Leadership
- ▣ Protecting the Environment
- ▣ Environmental Performance
- ▣ Lifecycle Thinking
- ▣ Communication
- ▣ Documented Information

# Structure – Annex SL

- ▣ Reorders the standard – cross reference in Annex B of 14001:2015
- ▣ Aligns with other management system standards

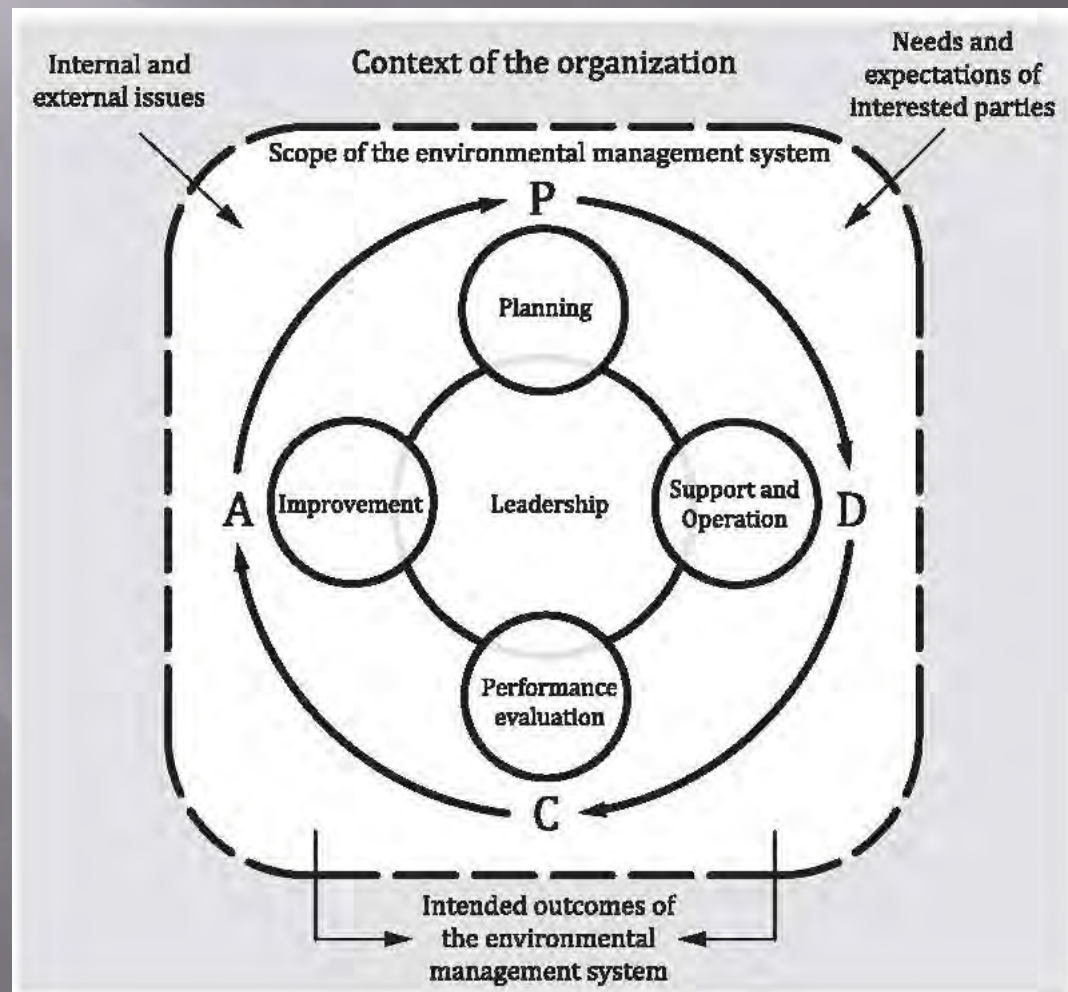
Clause 1:	Scope
Clause 2:	Normative references
Clause 3:	Terms and definitions
Clause 4:	Context of the organization
Clause 5:	Leadership
Clause 6:	Planning
Clause 7:	Support
Clause 8:	Operation
Clause 9:	Performance evaluation
Clause 10:	Improvement

# Strategic Environmental Management

- ▣ Incorporate Environment into Overall Strategic Planning
- ▣ Understand Organizational CONTEXT
  - Identify and Leverage Opportunities to Benefit the Organization and the Environment v. Just Aspects and Impacts
  - INTENDED OUTCOMES – Environmental Performance, Compliance, Achieve Environmental Objectives
  - Focus
    - ▣ Issues or circumstances of INTERESTED PARTIES
    - ▣ Environmental Conditions that affect, or affected by, the Organization
  - Mitigate Adverse Risk
  - Exploit BENEFICIAL OPPORTUNITIES



# More on Organizational Context



# Leadership



# Leadership

- ▣ Specifically calls out Top Leadership to:
  - Take accountability
  - Ensure Policy and Objectives are established and compatible with strategic direction and CONTEXT
  - Ensure Integration
  - Dedicate resources
  - Communicate importance of EMS
  - Ensure achievement of outcomes
  - Direct and support persons
  - Promote continual improvement
  - Support other leaders

# Protecting the Environment and Environmental Performance

- ▣ Must take PROACTIVE Initiative
- ▣ Shift from improving the EMS to improving the ENVIRONMENT
  - Reduce Emissions, Effluent, and Waste - P2
  - Treat opportunities (positive aspects/impacts) equally
    - ▣ Energy
    - ▣ Climate Change
    - ▣ Water Usage
    - ▣ Supply Chain



# Lifecycle Thinking

- ▣ When determining environmental aspects, the organization considers a life cycle perspective.
- ▣ does not require a detailed life cycle assessment;
- ▣ thinking carefully about the life cycle stages that can be controlled or influenced by the organization is sufficient. Lifecycle Exercise (honey production)
- ▣ Life Cycle Stages
  - raw material acquisition
  - design
  - production,
  - transportation/ delivery
  - use
  - end-of-life treatment and final disposal

# Communication

- ▣ Develop COMMUNICATIONS STRATEGY
- ▣ Communication should:
  - be transparent, i.e. the organization is open in the way it derives what it has reported on;
  - be appropriate, so that information meets the needs of relevant interested parties, enabling them to participate;
  - be truthful and not misleading to those who rely on the information reported;
  - be factual, accurate and able to be trusted;
  - not exclude relevant information;
  - be understandable to interested parties.

# Documented Information

- ▣ “Documented Information” v. “Documents” and “Records” to reflect the varied ways we now document things
- ▣ The primary focus should be on the implementation of the environmental management system and on environmental performance, not on a complex documented information control system.
- ▣ Most sections have documentation requirements included:

# Documented Information

- ▣ Most sections have documentation requirements included:
  - E.g. 6.1.2 - Environmental Aspects
    - ▣ The organization shall maintain documented information of its:
      - — environmental aspects and associated environmental impacts;
      - — criteria used to determine its significant environmental aspects;
      - — significant environmental aspects.



# Practical Implications

- Buy the standard
  - <http://webstore.ansi.org/>

The screenshot shows a web browser window with the URL [webstore.ansi.org/RecordDetail.aspx?sku=ISO+14001%3a2015](http://webstore.ansi.org/RecordDetail.aspx?sku=ISO+14001%3a2015). The page features the ANSI logo and navigation links: HOME, CART, ALERT, ACCOUNT, DOWNLOAD, FAQ, and TERMS OF USE. A search bar is present with tabs for Document Number, Keyword, and News. A welcome message for 'John' is displayed. The main content area highlights the ISO 14001:2015 standard, titled 'Environmental management systems - Requirements with guidance for use'. It includes a price of \$173.00 (Full MBR Price: \$138.40) and a button to 'ADD TO CART'. A sidebar on the left lists various categories like Home, Site Licenses, Browse Standards, Standards Packages, Special Categories, and Account. A vertical banner on the right reads 'WE'RE HERE TO HELP'.

ANSI American National Standards Institute

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ISO 14001:2015

Environmental management systems - Requirements with guidance for use

ISO 14001:2015 specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance. ISO 14001:2015 is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability.

ISO 14001:2015 helps an organization achieve the intended outcomes

Price: \$173.00  
Full MBR Price: \$138.40

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# Examples of Possible EMS Changes

- ▣ New High Level Structure (Annex SL)
  - Will likely require significant change to documentation, if only to reflect the new chapters
- ▣ More Organizational awareness of EMS
- ▣ New way of looking at aspects and impacts – risks, opportunities, environmental performance
- ▣ Focus on Internal AND External issues, Parties, Communication

# Examples of Possible EMS Changes

- ▣ Leadership is going to have to be more involved
- ▣ Focus on PDCA : Plan, Do , Check, Act Cycle
- ▣ Revised documented information process

# Cross Reference 2015:2004

**Table B.1 — Correspondence between ISO 14001:2015 and ISO 14001:2004**

ISO 14001:2015		ISO 14001:2004	
Clause title	Clause number	Clause number	Clause title
Introduction			Introduction
Scope	1	1	Scope
Normative references	2	2	Normative references
Terms and definitions	3	3	Terms and definitions
Context of the organization (title only)	4		
		4	Environmental management system requirements (title only)
Understanding the organization and its context	4.1		
Understanding the needs and expectations of interested parties	4.2		
Determining the scope of the environmental management system	4.3	4.1	General requirements
Environmental management system	4.4	4.1	General requirements
Leadership (title only)	5		
Leadership and commitment	5.1		
Environmental policy	5.2	4.2	Environmental policy
Organizational roles, responsibilities and authorities	5.3	4.4.1	Resources, roles, responsibility and authority
Planning (title only)	6	4.3	Planning (title only)
Actions to address risks and opportunities (title only)	6.1		
General	6.1.1		
Environmental aspects	6.1.2	4.3.1	Environmental aspects
Compliance obligations	6.1.3	4.3.2	Legal and other requirements
Planning action	6.1.4		
Environmental objectives and planning to achieve them (title only)	6.2	4.3.3	Objectives, targets and programme(s)
Environmental objectives	6.2.1		
Planning actions to achieve environmental objectives	6.2.2		
Support (title only)	7	4.4	Implementation and operation (title only)
Resources	7.1	4.4.1	Resources, roles, responsibility and authority
Competence	7.2	4.4.2	Competence, training and awareness
Awareness	7.3		
Communication (title only)	7.4	4.4.3	Communication
General	7.4.1		
Internal communication	7.4.2		
External communication	7.4.3		



# Cross Reference 2015:2004

**Table B.1** *(continued)*

ISO 14001:2015		ISO 14001:2004	
Clause title	Clause number	Clause number	Clause title
Documented information (title only)	<a href="#">7.5</a>	4.4.4	Documentation
General	<a href="#">7.5.1</a>		
Creating and updating	<a href="#">7.5.2</a>	4.4.5	Control of documents
		4.5.4	Control of records
Control of documented information	<a href="#">7.5.3</a>	4.4.5	Control of documents
		4.5.4	Control of records
Operation (title only)	<a href="#">8</a>	4.4	Implementation and operation (title only)
Operational planning and control	<a href="#">8.1</a>	4.4.6	Operational control
Emergency preparedness and response	<a href="#">8.2</a>	4.4.7	Emergency preparedness and response
Performance evaluation (title only)	<a href="#">9</a>	4.5	Checking (title only)
Monitoring, measurement, analysis and evaluation (title only)	<a href="#">9.1</a>	4.5.1	Monitoring and measurement
General	<a href="#">9.1.1</a>		
Evaluation of compliance	<a href="#">9.1.2</a>	4.5.2	Evaluation of compliance
Internal audit (title only)	<a href="#">9.2</a>	4.5.5	Internal audit
General	<a href="#">9.2.1</a>		
Internal audit programme	<a href="#">9.2.2</a>		
Management review	<a href="#">9.3</a>	4.6	Management review
Improvement (title only)	<a href="#">10</a>		
General	<a href="#">10.1</a>		
Nonconformity and corrective action	<a href="#">10.2</a>	4.5.3	Nonconformity, corrective action and preventive action
Continual improvement	<a href="#">10.3</a>		
Guidance on the use of this International Standard	<a href="#">Annex A</a>	Annex A	Guidance on the use of this International Standard
Correspondence between ISO 14001:2015 and ISO 14001:2004	<a href="#">Annex B</a>		
		Annex B	Correspondence between ISO 14001:2004 and ISO 9001:2008
Bibliography			Bibliography
Alphabetical index of terms			

# Proposed Project Management Steps

- ▣ Get the Final Standard (see above)
- ▣ Consider attending an in-depth seminar or training course as they become available
- ▣ Brief your leadership on their new obligations
- ▣ Take this opportunity to re-invent your EMS
  - Look at everything with a critical eye – past audits, peer reviews, CAPAs, user input
- ▣ Map out the section changes
- ▣ Revisit all your processes, aspects, impacts, and significance ranking
- ▣ Conduct Gap Analysis (consider outsourcing)
- ▣ Think about new objectives – ENVIRONMENTAL PERFORMANCE

# Calendar

	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
2016	Understand New ISO 14001			Think about Cultural Changes and Brief Your Leadership			Map Changes to EMS Manual and/or Procedures			Re-Invent EMS: Committee, review CAPAs		
2017	Revisit Processes, Aspects, Impacts, Targets and Objectives Think Environmental Performance						Make Changes to System			Conduct Gap Analysis		
2018	Transition System Fully to New Revision – Training, Documentation, Targets and Objectives, PDCA						Be fully prepared for certification to new revision					

# Summary of Basic Steps

- ▣ What are our Intended Outcomes?
- ▣ Environmental Policy
- ▣ Where do we live? Context and Scope
- ▣ Internal and External Issues
- ▣ Risks and Opportunities
- ▣ Aspects and Impacts
- ▣ Processes
  - Planning
    - ▣ Issues
    - ▣ Aspects/Impacts
    - ▣ Objectives
    - ▣ Compliance Obligations
  - Communication
  - Operational Planning and Control
  - Emergencies
  - Evaluation of Compliance
  - Internal Audit Programme



# QUESTIONS

