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ISO Management systems What are they? Why use them?

- Complying with ISO management standards:
 - increases confidence in business relationships,
 - broadens opportunities
 - satisfies many legal and contractual requirements
 - provide an international benchmark





ISO High level text - Annex SL

What is it? Why has it been introduced?

- Developed by ISO
- Introduces common clause headings & core text
- Increases alignment and makes it easier to implement multiple management systems
- Recognises that no two organizations operate in the same way – greater flexibility
- ISO 9001, 14001, 27001, 55001, 45001, 22301 all adopting this structure





Key Changes

- Emphasis on the context of the organization
- · Application of risk based thinking
- Increased involvement and accountability of top management
- Integration of the management system into overall business strategy & systems
- Greater emphasis on the customer and communications
- Less bureaucracy





Main Changes

- High Level Structure (HLS)
- · Context Of the Organisation
- · Process approach
- · The emphasis on leadership
- The focus on Risk based thinking / risk management
- Documented information / fewer prescribed requirements
- Emphasis on objectives measurement and change
- Communication



High Level Structure

- Management system standards
- Annex SL
- New terminology and structure

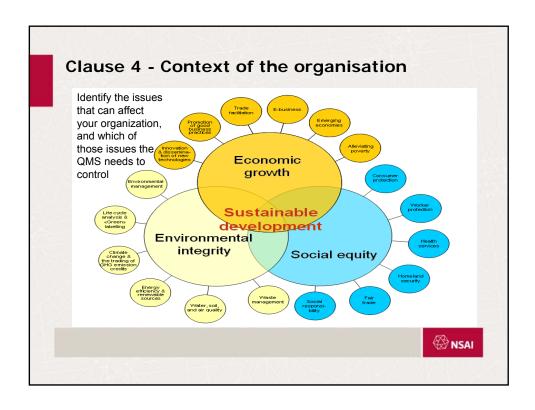


ISO 9001:2015 Contents 7. Support • Resources - Organizational knowledge • Competence 1. Scope 2. Normative references 3. Terms and definitions AwarenessCommunicationDocumented information 4. Context of the organization Understanding the organization and its context 8. Operation Operational planning and control Requirements for products and services Processed development of products. Understanding the needs and expectations of interested parties Determining the scope Of QMS services Design and development of products and services Control of externally provided processes, products and services Production and service provision Post Delivery, Control of change Release of products and services Control of nonconforming outputs Quality management system and its 5. Leadership Leadership and commitment Ouality Policy Organizational roles, responsibilities and authorities 6. Planning 9. Performance evaluation Actions to address risks and opportunities Monitoring, measurement, analysis and evaluation Quality objectives and planning to achieve them Internal audit Management review · Planning of changes 10. Improvement Nonconformity and corrective action Continual improvement ₩ NSAI Black: core MS requirements Red: new MS requirements Green: ISO 9001 specific

Context of the organisation

- New Requirement
- Internal and external Factors
- Interested parties
- Scope of the QMS exclusions

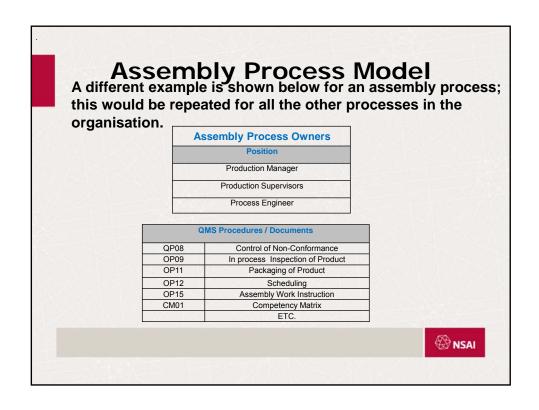




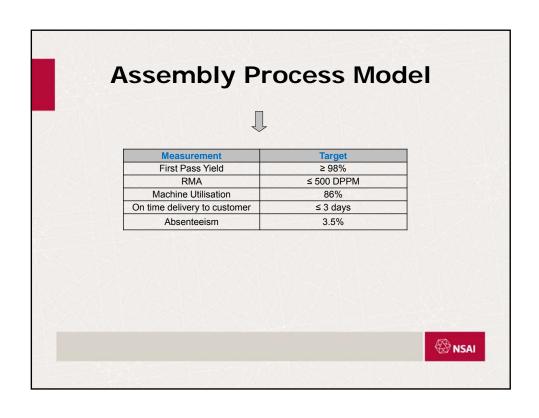
Process Approach

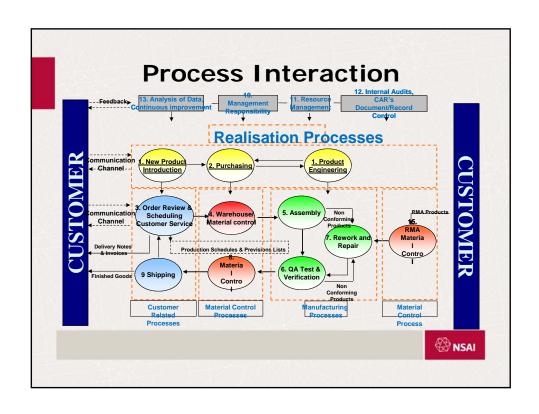
- Promotes process approach
- Inputs and outputs
- Sequence and interaction
- Monitoring and measurement





From Process	Inputs		Outputs	To Process
QA Test	Quality Plan Records	Assembly Process	Assembled Products	QA Test
Material Control	Materials		Quality Plan Records	QA Test
Product Engineering	Drawings		Completed Control Charts	Data Analysis
Product Engineering	Machine Programs		Non-conforming products	Rework & Repai
Order Review & Scheduling	Production Schedule			
Product Engineering	Control Charts		744 DAY	
Resource Management	Manpower		MOA	





Leadership

- Emphasis on leadership
- Top management
- QMS responsibilities and authorities



Risk-based thinking

- Determine key issues & requirements that can pose adverse or beneficial effects to your organisation
- Address Risks and Opportunities
- Plan actions to mitigate risks and leverage opportunities
- Formal Risk Assessment methodology is not required



Documented information

- New terminology
 - replaces documentation, documents and records
- Fewer prescribed requirements
 - Plus any documents or records the organization deems necessary, including that of external origin
- · Maintained or retained
- · Flexibility on type of documents



Objectives measurement and change

- · More emphasis on objectives
- · Objective planning
- More emphasis on monitoring and measurement
- More emphasis on controlling changes



Communication

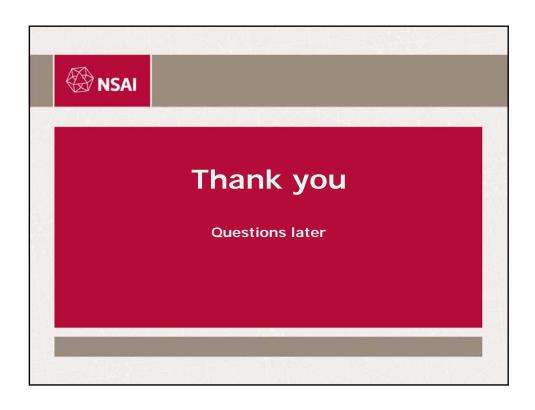
- Establish a communication process Covering what, when, with whom and how it will communicate, internally & externally
- Information needs to be consistent & reliable
- Enable input/feedback for continual improvement
- Communicate externally as required by its compliance obligations and its communication process
- Respond to inquiries by external interested parties
- · Retain records, as appropriate



Benefits

- Provides an integrated approach to organisational management systems.
- Uses simplified language and a common structure and terms, which are particularly helpful to organizations using multiple management systems, such as those for the environment, health & safety, or business continuity
- Enhances an organisations ability to satisfy its customers, better quality management helps you meet customer needs.
- · Puts greater emphasis on leadership engagement
- Helps address organizational risks and opportunities in a structured manner
- Is more user-friendly for service and knowledge-based organizations







Main Changes

- · High Level Structure (HLS)
- · Context of the organisation
- · Risk based approach
- · The emphasis on leadership
- · Environmental compliance
- Continual Improvement
- · Life cycle perspective
- · Documented information
- · Improved Communication

Provide a systematic approach that contributes to the 'environmental pillar' of sustainability



High Level Structure

- Management system standards
- Annex SL
- New terminology and structure



ISO 14001:2015 Contents 7. Support 2. Normative references Resources 3. Terms and definitions Competence 4. Context of the organization Awareness Understanding the organization and its Communication context Understanding the needs and - Internal communication expectations of interested parties Determining the scope of the environmental management system - External communication · Documented information 8. Operation Environmental management system Operational planning and control 5. LeadershipLeadership and commitment 9. Performance evaluation Environmental policy • Monitoring, measurement, analysis and Organizational roles, responsibilities and authorities - General - Evaluation of compliance Actions to address risks and opportunities General · Internal audit Management review10. Improvement - Environmental aspects Compliance obligationsPlanning action · Nonconformity and corrective action · Environmental objectives and planning to · Continual improvement achieve them - Environmental objectives Planning actions to achieve environmental objectives Black: core MS requirements Red: new MS requirements **₩ NSAI** Green: ISO 14001 specific

Context of the Organisation

- Integrating environmental issues into the strategic planning of the organisation
- Knowledge gained guides EMS planning
- Determine relevant interested parties
- Determine their relevant needs and expectations
- Determine which of these needs and expectations become the organization's 'requirements'



Risk-based thinking

- Determine key issues & requirements that can pose adverse or beneficial effects to your organisation
- Address Risks and Opportunities
- Plan actions to mitigate risks and leverage opportunities
- Formal Risk Assessment methodology is not required



Continual Improvement

- Determine opportunities for improvement and implement actions to achieve intended outcomes
- Improve the suitability, adequacy and effectiveness of the environmental management system
- Focus improving environmental performance
 - Reducing adverse environmental impacts or
 - Increasing beneficial impacts.



Leadership

- · Emphasis on leadership
 - Role as Leaders is to inspire others
- Top management
- EMS responsibilities and authorities



Environmental Compliance

- New terminology referring to an organization's obligations
- The organization determines those it has to comply with and those it chooses to comply with
- Evaluate compliance
- Maintain knowledge and understanding of compliance status



Life cycle perspective

- Explicit in determining environmental aspects and operational controls
- Considers the environmental impacts that can be controlled and influenced during each stage of the product lifecycle
 - Design
 - Raw material acquisition
 - Manufacture
 - Packaging/Transport/Delivery
 - Use
 - End of life treatment & final disposal
- Life cycle perspective does not require a life cycle assessment



Documented information

- · New terminology
 - replaces documentation, documents and records
- Fewer prescribed requirements
 - Plus any documents or records the organization deems necessary, including that of external origin
- Maintained or retained
- Flexibility on type of documents



Improved Communication

- Establish a communication process Covering what, when, with whom and how it will communicate, internally & externally
- Information needs to be consistent & reliable
- · Enable input/feedback for continual improvement
- Communicate externally as required by its compliance obligations and its communication process
- Respond to inquiries by external interested parties
- · Retain records, as appropriate



Benefits

- Provides an integrated approach to organisational management systems. Aligns: -
 - Environmental management to business strategy
 - Environmental initiatives with business priorities
 - EMS processes with other management system
- Uses simplified language and a common structure and terms, which are particularly helpful to organizations using multiple management systems,
- · Puts greater emphasis on leadership engagement
- Risk-based approach to protect the environment
 - Prevent adverse impacts
 - Pursue opportunities with beneficial impact & competitive advantage



Benefits

- · Optimize the product footprint
 - Address during product design
 - Focus on each lifecycle stage raw materials, manufacture, transport, packaging, consumer use and final disposal
- Enhance environmental performance
- · Raise environmental awareness & involvement



