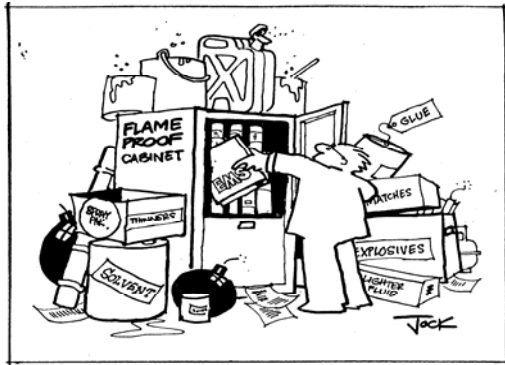
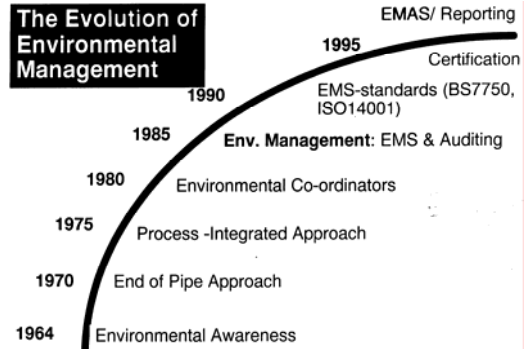


**ENVIRONMENTAL MANAGEMENT SYSTEMS &
ISO 14001**



**The Evolution of
Environmental
Management**



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1-9

**Environmental management
History**

- 1972: UN Conference on Human Environment, Stockholm
- 1972 **UNEP** (UN Environmental Programme) was established
- 1984: WCED: World Commission on Environment and Development: *Our Common Future* (1987)
- 1990: BCSD: Business Council for Sustainable Development: *Changing Course* (1992)
- 1991: ICC **Business Charter for Sustainable Development**: 16 principles for sound environmental management

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1-8

**Environmental Management
History**

- 1984: Responsible care programme: chemical industry
- 1992: UNCED: UN Conference on Environment and Development: *Agenda 21* and *Rio Declaration*
- 1991: BCSD approached ISO and IEC to discuss development of environmental standards
First meeting with ISO: August 1991: SAGE
- >1994: standards / schemes: BS7750, EMAS, ISO

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1-6

Why Environmental Management?

- legislation and enforcement
- stakeholder pressure
 - financial institutions
 - shareholders, employees
 - environmental interest groups, consumers, general public
- awareness, image, reputation
 - responsible care
 - corporate image
 - impact on business: liability, cost, business interruption, negative publicity, damage to image

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1-10

Why Environmental Management?

- competitiveness
 - awareness for impacts on competitiveness of environmental aspects of products and processes
 - trade barriers caused by different standards for environmental performance
- finance
 - economic instruments (taxes, levies) to stimulate decrease in pollution;
 - incentives from government, banking and insurance companies.

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Why an Environmental Management System?

- structured and systematic approach
- control of environmental aspects
- compliance with legislation
- improvement of environmental performance
- favourable experience with quality management systems

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1-1

EMS-definition

ISO 14001

that part of the overall management system which includes organisational structure, planning activities, responsibilities, practices, procedures, processes and resources for developing, implementing, achieving, reviewing and maintaining the environmental policy

BS 7750

the organizational structure, responsibilities, practices, procedures, processes and resources for implementing environmental management

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2-2

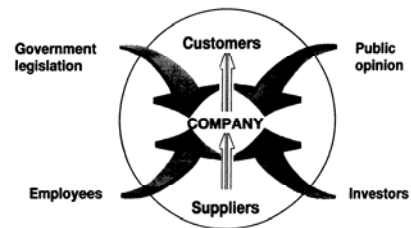
Aims of an EMS

- identification and control of aspects, impacts, risks
- establishing and achieving an environmental policy, objectives, targets, including compliance with legislation
- identifying environmental opportunities
- monitoring and continual improvement of environmental performance

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2-4

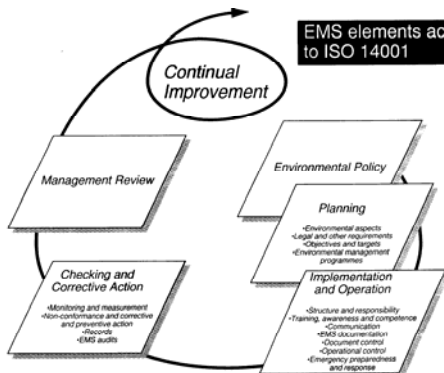
Interested parties



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1-3

EMS elements according to ISO 14001



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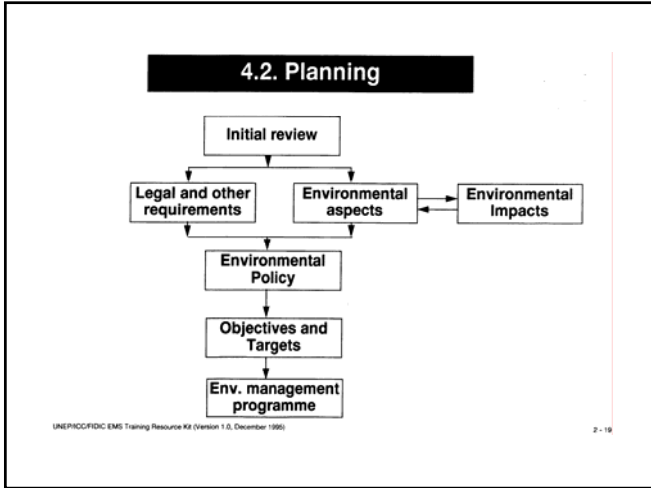
2-16

4.1 Environmental policy

- defined by top management;
- appropriate for the nature, scale, impacts of the activities, products, services;
- *commitment for continual improvement and prevention of pollution;*
- *commitment to comply with env. legislation, regulations and other requirements;*
- framework for objectives and targets
- documented, implemented, maintained, communicated to all employees
- available to the public

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2-18



- ### 4.3 Implementation and operation
- structure and responsibility
 - training, awareness and competence
 - communication: internal, external (response), decision on other types of external communication
 - EMS documentation
 - document control
 - operational control: procedures, criteria, suppliers, contractors
 - *emergency preparedness and response*
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- ### 4.4 Checking and corrective action
- monitoring and measurement
 - non-conformance and corrective and preventive action
 - records
 - EMS audit
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- ### 4.5 Management review
- objective: checking continuing suitability, adequacy and effectiveness of the EMS
 - documentation of findings
 - attention for: changes in environmental policy, objectives and targets in the light of changing circumstances and in view of continual improvement.
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- ### The Initial Environmental Review
- To establish the base for the development of the EMS
 - To identify weaknesses and problem areas in order to resolve them
 - To identify strengths and opportunities for improvement, products, markets
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- ### What does the Initial Review give You?
- Baseline for environmental management
 - Current and future legislative/regulatory requirements
 - Prioritisation of areas of significant risk
 - Advance identification of potential problems
 - Base for effective on-going appraisal of environmental performance
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