

**ISO 14000**

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**Environmental Science**

## *The ISO 14000 Series of Environmental Management Standards:*

- The ISO is a specialized international organization whose members are the national standards bodies of 111 countries.
- All standards developed by ISO are voluntary
- ISO 14000 is a series of international standards on environmental management.
- "ISO 14000" is the first international attempt to standardize environmental management practices around the world.
- ISO 14000 will help integrate the environmental management systems of companies that trade with each other in all corners of the world.

# ISO 14000 Model

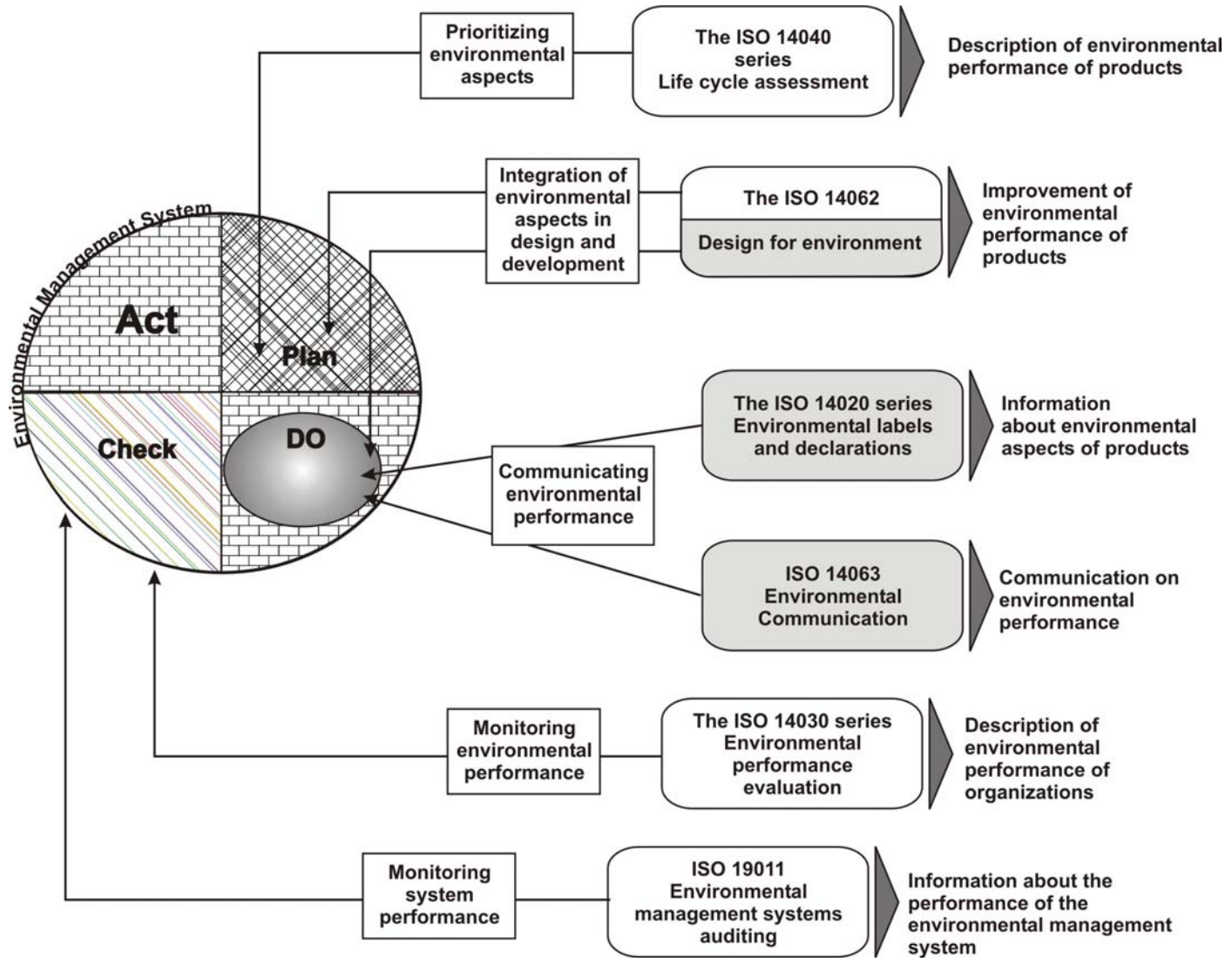


Fig 7.7 ISO 14000 Model

# *Scope and Status of ISO 14000*

- The first type refers to Organization Standards that can be used to implement and evaluate the environmental management system (EMS) within an organization. Included are: the ISO 14000 series of EMS standards; the ISO 14010 series of environmental auditing standards; and the ISO 14030 series of standards for environmental performance evaluation.
- The second type of standards encompasses those Product Standards that can be used to evaluate environmental impacts from products and processes. Included in this subgroup are: the ISO 14020 series of environmental labeling standards; the ISO 14040 series of life-cycle analysis standards; and the ISO 14060 series of product standards.

# *Organization Standards:*

- The specification document is referred to as "ISO 14001 (Environmental Management Systems - Specification with Guidance for Use)". ISO 14001 is the standard to which an organization will register its EMS using an independent third-party to evaluate the system and to confirm that the organization's EMS conforms to ISO 14001 specifications. ISO 14001 is the only standard in the whole series to which an organization can be registered. All other standards are supporting or guidance documents which cannot be used for registration purposes.
- The guideline document is referred to as "ISO 14004 (Environmental Management Systems - General Guidelines on Principles, Systems, and Supporting Techniques)". The intent of ISO 14004 is to assist organizations to develop and implement an EMS that will meet the specifications of ISO 14001. It is a general guide only, and not a standard against which an organization can be audited and registered.

# *Product Standards*

- *Environmental Labeling*
  - Type I programs are referred to as "practitioner" programs which are product or product category based, similar to the Environmental Choice Program or Germany's Blue Angel Program.
  - Type II programs are based on common terms and definitions which can be used for self-declared claims.
  - Type III programs are based on a "report card" concept, much like existing nutrition labels.
- *Life Cycle Analysis (LCA)*
- *Environmental Aspects in Product Standards*

# ISO 14001

ISO 14000 Family of Standards		
GROUP	STANDARDS	
Environmental Management Systems	ISO	14001
	ISO	14004
	ISO/TR	14061
	ISO	14063
Environmental Auditing	ISO	14010
	ISO	14011
	ISO	14012
	ISO	14015
	ISO	19011
Environmental labeling	ISO	14020
	ISO	14021
	ISO	14024
	ISO/TR	14025
Environmental Performance Evaluation	ISO	14031
	ISO/TR	14032
Life Cycle Assessment	ISO	14040
	ISO	14041
	ISO	14042
	ISO	14043
	ISO/TR	14047
	ISO/TS	14048
	ISO/TR	14049
Environmental Management Vocabulary	ISO	14050
Environmental Aspects in Product Standards	ISO/TR	14062
	ISO	14064
	ISO	Guide 64