

ISO 14001 4.3.4 ENVIRONMENTAL MANAGEMENT PROGRAMS



Lesson Learning Goals

At the end of this lesson you should be able to:

- List the various components/requirements of an environmental management program (EMP)
- Draft an EMP for a specified environmental objective or target
- Specify the types of resources needed for undertaking an EMP
- Identify key environmental performance indicators

Environmental Management Programs

An EMP is an action plan specifying:

- **How** objectives and targets will be accomplished
- **Who** is responsible for achieving them
- **Who** will manage and supervise the activities
- **Who** will carry out the work
- **What** they will do

Environmental Management Programs (Cont'd)

An EMP is an action plan specifying:

- **What** resources are needed (e.g., people, skills, equipment, time, money)
- **When** the tasks will be completed (i.e., a schedule)

ISO 14001 Environmental Management Programs says:

The organization shall establish and maintain programs for achieving its objectives and targets, including:

- (a) designation of responsibility for achieving objectives and targets at each level and function of the organization
- (b) the means and time-frame by which they are to be achieved

More Requirements

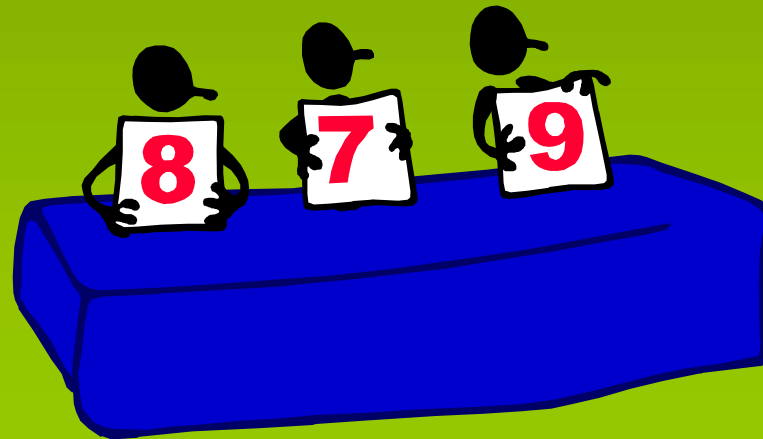
- Environmental management programs must be maintained (i.e., revised and kept up to date) to reflect changes in personnel, schedules, objectives, and targets
- EMP should have a high priority
- Need to hold regular reviews of EMP to assess progress towards achieving objectives and targets

Resources: A Responsibility of Management

Business planning, budgeting, capital equipment and personnel allocations by top management must consider resources needed for environmental management programs

Key Performance Indicators

- Used to measure progress towards achievement of objectives and targets
- Based on accurate, objective data generated by reliable techniques verified by quality assurance and quality control procedures



ISO 14001 Environmental Management Programs also says:

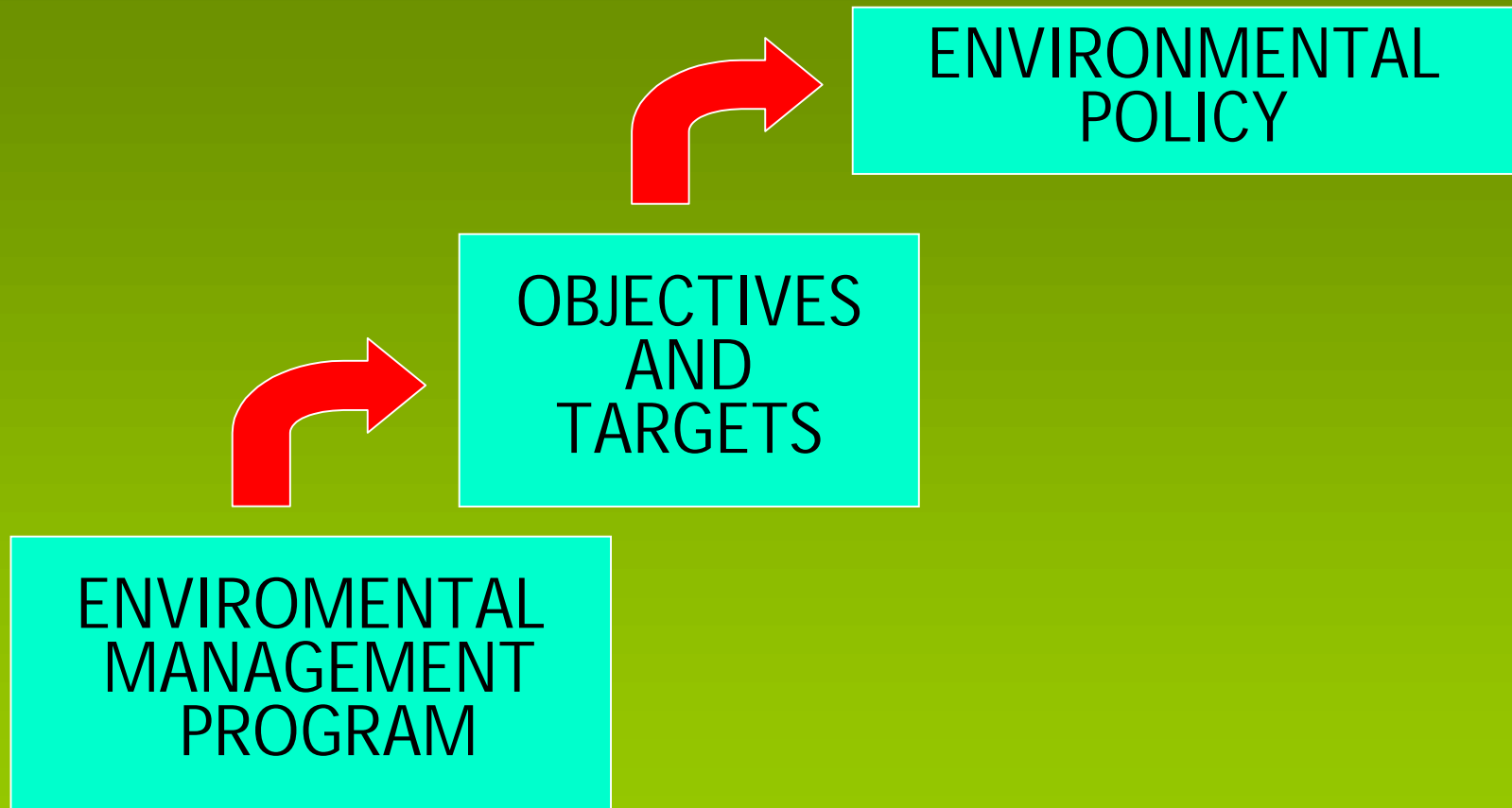
If a project relates to new developments and new or modified activities, products, or services, programs shall be amended where relevant to ensure that environmental management applies to such projects

New Projects or Modifications

Examples:

- Changing a raw material or process chemical
- Modifying a manufacturing process or installing a new process
- Changing a waste treatment process
- Installing a new piece of equipment with a potential to affect environmental aspects

ISO 14001 Planning Summary



ISO 14001 Planning Sequence

ENVIRONMENTAL POLICY	Guiding Light
ENVIRONMENTAL ASPECTS	Problem Definition
LEGAL AND OTHER REQUIREMENTS	Obligations
OBJECTIVES AND TARGETS	Goal Setting
ENVIRONMENTAL MANAGEMENT PROGRAMS	Means of Achieving Goals

Concluding Thoughts

Important points to remember are:

- Environmental management programs are detailed action plans for achieving objectives and targets
- EMP specify resources, responsibilities, schedule (who does what, how, and by when)
- Key performance indicators help to track progress in EMP
- EMP must be kept up to date (i.e., maintained) by regular review and revision