



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF MECHANICAL ENGINEERING

19MEE 304 – TOTAL QUALITY MANAGEMENT

III YEAR - V SEM

UNIT 5 – QUALITY SYSTEMS

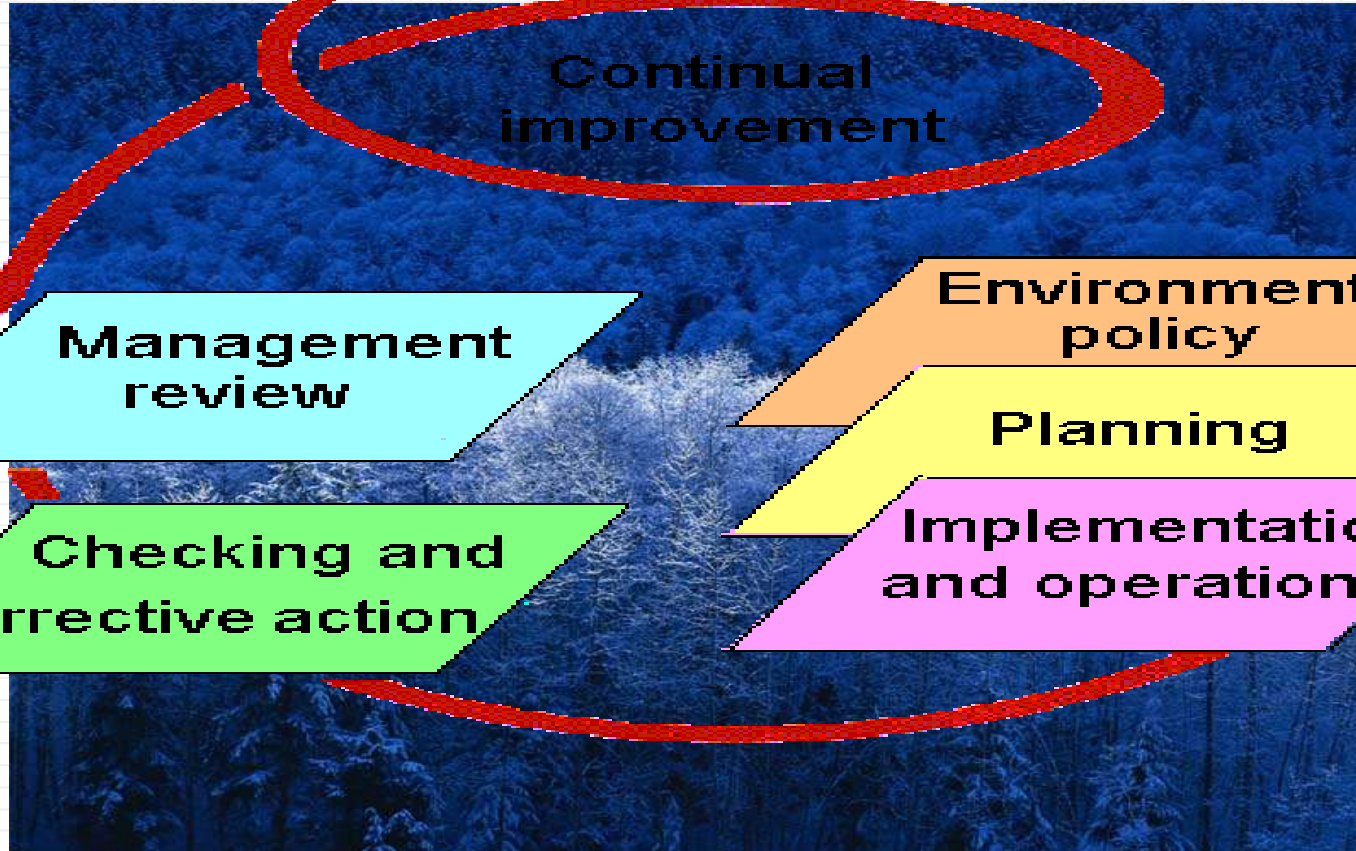
TOPIC – EMS MODEL



ENVIRONMENTAL MANAGEMENT SYSTEM.

- A continual cycle of planning, implementing, reviewing and improving the actions that an organization takes to meet its environmental obligations.

Environmental management system model



Environmental management system model

1. Environmental policy

Initially, the organization's top management should have commitment and define the policy on EMS which is used for the direction of implementing and improving its EMS.

2. Planning

In order to achieve environmental policy, at least, the organization should :

Identify the environmental aspects of its activities and specify those which have significant impacts on the environment.

Identify legal and other requirements to which the organization is involved.

Establish objectives and targets of its activities having impacts to environment.

Establish environmental programs for achieving its objectives and targets.

3. Implementation

In order to achieve environmental planning, at least, the organization should :

- Define roles, responsibilities and authorities for facilitating EMS effectively.
- Communicate to the staffs at each level for the importance of conformance to the environmental policy; provide appropriate training to personnel performing the tasks to gain their knowledge and competence.
- Establish and control documentation relating to EMS.
- Control operations and activities to meet the specified objectives and targets.
- Identify potential accidents and emergency situations for preventing and mitigating the environmental impacts that may be associated with them and periodically test such procedures where practicable.

4. Checking and corrective action

To ensure that the organization is performing in accordance with the stated EMS programmes, at least, the organization should:

- Monitor and measure its operations and activities against the organization's plans.
- Identify non-conformance and take action to mitigate any impact caused.
- Record the on-going activities of the EMS.
- Conduct periodic EMS audits.

5. Management review

The organization's top management should review and continually improve its EMS, with the objective of improving its overall environmental performance.

Key EMS concepts

✓ Continual improvement

- It is to note that an effective EMS doesn't just happen. An effective EMS needs ongoing management support. This endorses the concept of *continual improvement*.
- The concept of continual improvement recognizes that problems will occur, but a committed organization learns from its mistakes and prevents similar problems from occurring in the future.
- ISO 14000 Continuous improvement model begins with top mgmt's commitment to corporate governance by a set of overarching principle's including:
 - Environmental protection as one of the highest corporate priorities with clear assignment of responsibilities and accountabilities to all employees.

CONTI...

Compliance with all environmental laws and regulations applicable to the organization's activities, products and services.

Ongoing communication on environmental commitment and performance with all stakeholders.

Strategic planning that sets forth environmental performance objectives and targets, implemented through a disciplined mgmt process.

Periodic performance measurement, as well as systems audits and mgmt reviews, to achieve continual improvement wherever possible.

✓ Employee involvement

- Getting *employee involvement* in designing and implementing the EMS demonstrates the organization's commitment to the environment. So to build and achieve an effective EMS mgmt should communicate the importance of:

Conviction and commitment towards effective environmental mgmt for organization's survival.

Building environmental mgmt in all aspects of orgznl oprns-product and process development.

Addressing environmental problems as opportunities.

Flexibility

- Dynamicity in EMS will :

1. Allow the organization to adapt to rapidly changing business environment
2. Help making the formulated EMS understandable to all concerned who must implement it.
3. Allow assessment of how organization manages environmental obligations and finds cost-effective solutions.

Some unique and important characteristics of ISO 14001 are:

It is **comprehensive**: all members of the organization participate in environmental protection, the EMS considers all stakeholders, and there are processes to identify all environmental impacts.

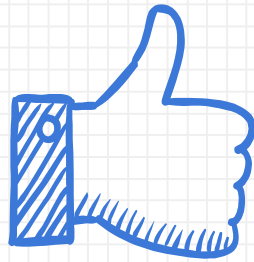
It is **proactive**: it focuses on forward thinking and action instead of reacting to command and control policies.

It is a **systems** approach: it stresses improving environmental protection by using a single environmental management system across all functions of the organization.

Legal and other requirement

- ☞ Compliance to laws and regulations
- ☞ Issuance of consent and permit conditions
- ☞ Organization – specific codes and programmes that it voluntarily subscribes.
- ☞ Standards and guidelines in the regions where the organization undertakes business.





THANKS!