

EMS - Environment Management System.

- EMS is a set of process & particles that enable an organisation to reduce its environmental impacts & increase efficiency

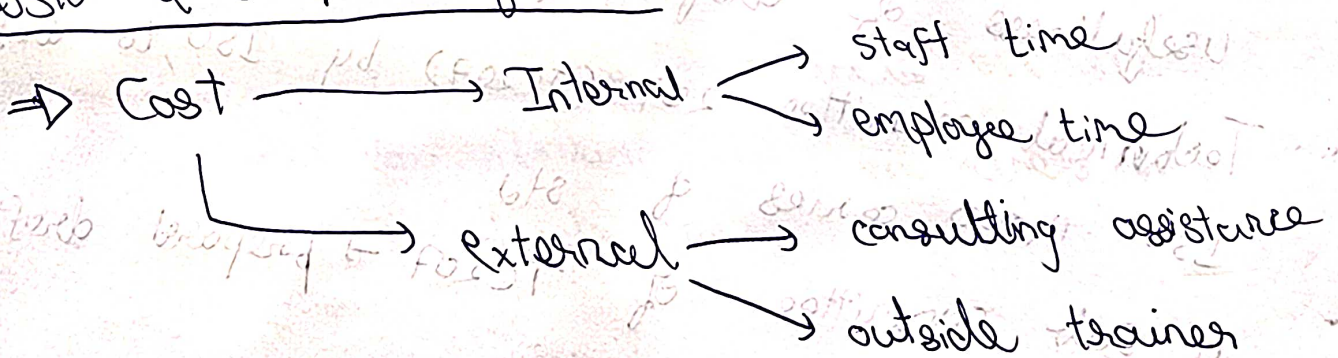
↳ Involves

- Identifying env problems
- " " impacts
- setting up env goals & action plans
- Maintaining records
- regular reviews

Goals of EMS

- Meet regulatory requirements
- Reduce env impact
- To convince customer abt organization's seriousness abt env.
- Reduce liabilities on env

Costs & Benefits of EMS



Benefits → Improved env performance

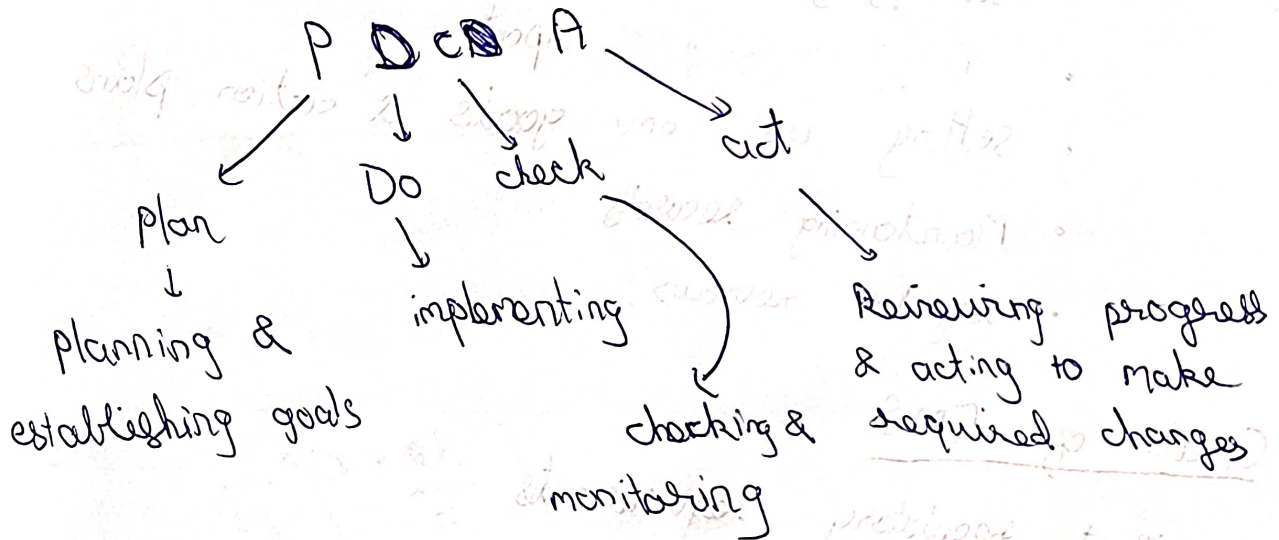
→ Pollution prevention

→ Resource saving

→ Increased efficiency

→ New customers.

PDCA Models of EMS



ISO 14000 Series (std of EMS)

- Widely accepted
- SAGE established by ISO in 1991 to check usefulness of drafting of EMS std.
- Technical committee 207 (TC207) by ISO, to draft ISO 14000 series of std.
- ✓ A sub committee of TC207 → prepared draft
- Draft was agreed in 1995

Principles of ISO 14000

- 1) Understand activities of organisation
- 2) Identify its impact on ENV.
- 3) Find steps to reduce impacts
- 4) Identify regulatory on env & establish targets.
- 5) Monitor organisation
- 6) Establish system for emergency prep.
- 7) " " " checking proper functioning of EMS.
- 8) Maintain documents & records

Structure of ISO 1400 series std

> Classification Based on focus

a) ~~any~~ Organisation standards

↳ Include EMS, env auditing (EA) & env performance evaluation (EPE)

b) Product oriented standards

↳ Include life cycle assessment (LCA), env labelling (EL), & env aspects in product standards (EAPS)

Classification based on compulsion

a) Narrative standards

↳ indicate requirement that must be met & can be ~~checked~~ audited for certification

b) Informative std.

↳ provide guidance → need not be audited

ISO 14000 Series standards

64 → published ISO standards

13 → under development "

78 → participating members

42 → observing "

ISO 14001 standard

1st version → 1996

2nd " → 2004

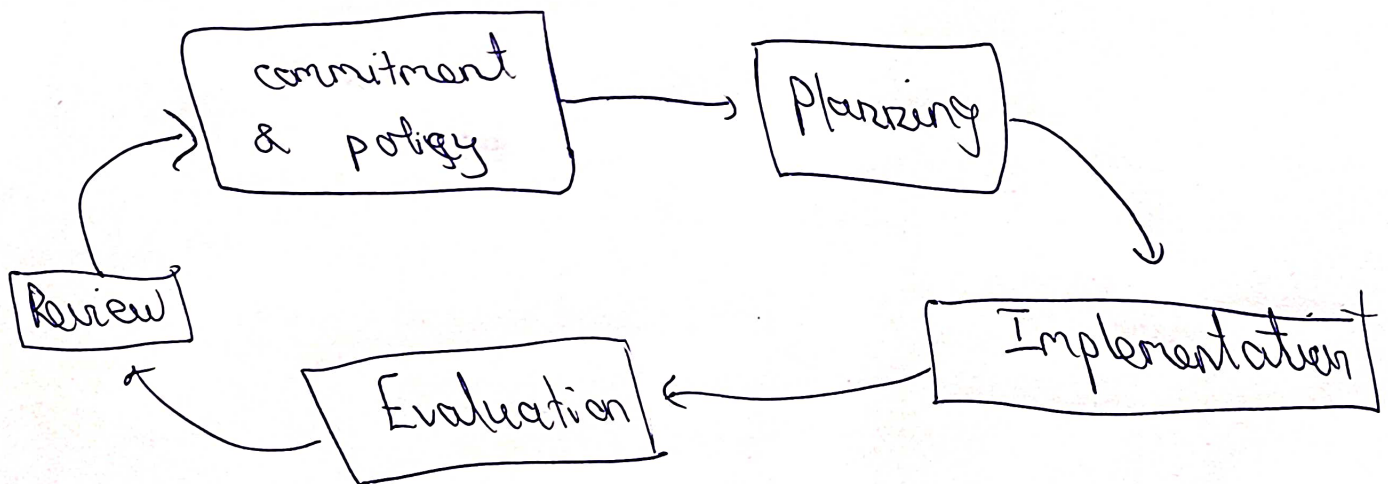
3rd " → 2015

- specify requirements for EMS for an organisation
- applicable to any organisation
- does not state specific env performance criteria
- can be used in part or whole.
- Claims of ISO 14001:2015 are not acceptable unless all its requirements are satisfied.

⇒ An EMS conforming to ISO 14001 contains the following:

- An env policy
- Identification of env prospects
- " " legal req.
- Env goals.
- Env management program
- Roles & responsibilities of authorities
- Training & ~~awareness~~ awareness.
- Record keeping
- Review ~~set~~ of procedures

⇒ 5 Main Stages defined by ISO 14001



Certificate for ISO 14001

o self declaration

o 3rd party assessment