

General Environmental Management Systems Awareness Training



MCCCS
Camp Lejeune

As MCCS Employees, We Must Understand How Our Day-to-Day Activities Impact the Environment



Objectives

After this awareness training, you should be familiar with:

- CO's policy
- What is (EMS)
- Basic definitions
- Purpose of EMS
- The benefits of an EMS
- Framework of EMS
- EMS examples
- Your participation



Marine Corps Base Camp Lejeune Commanding Officer's Environmental Policy Statement



The protection and enhancement of our natural environment is a key asset in the training and support mission of Marine Corps Base Camp Lejeune (MCB CamLej). MCB CamLej is committed to ensuring protection of human health, conservation of natural and cultural resources, and compliance with regulatory requirements. Through an active and effective Environmental Management System (EMS), MCB CamLej will continuously assess daily operations, and identify and implement improvements to its practices in order to meet the objectives of Executive Orders 13514 and 13423, and other governing regulations. MCB CamLej will:

- Uphold the Constitution and obey the Nation's laws. Complying with environmental laws is part of that duty.
- Protect the natural and cultural resources entrusted to Camp Lejeune. The public's trust is precious and must not be violated.
- Implement pollution prevention initiatives, waste diversion, recycling, and waste minimization programs.
- Assess and remediate contaminated sites aboard the Base that are the result of past disposal practices, and spills and leaks of hazardous materials and waste. Encourage public participation and exchange information with parties of the investigation and remediation process.
- Implement energy efficiency and water conservation management projects. Ensure that new construction and major building renovations reduce the life-cycle cost of facilities' environmental and energy attributes, improves energy efficiency, reduces water consumption, utilizes renewable energy and promotes sustainable environmental stewardship.
- Procure biobased, environmentally preferable, energy efficient, water-efficient, and recycled-content products.
- Sustains our partnership with local communities and regulatory agencies to enhance stewardship of the environment, create goodwill, and build trust.
- Educate our Marines, Sailors and civilian Marines about their responsibility to protect our natural environment, stressing the important role each individual plays in an effective environmental management.

Marine Corps Base Camp Lejeune is committed to applying these sound environmental management practices to our Command's resources and continually improving these practices to strengthen our mission.


D. J. LECCE

Colonel, United States Marine Corps
Commanding Officer, Marine Corps Base Camp Lejeune

What Is an Environmental Management System (EMS)?

- An EMS is simply a set of procedures to reduce our environmental footprint in our day-to-day activities.
- An EMS is the combination of people, policies, procedures, review, and plans to help address environmental issues.
- An EMS is that part of an overall management system which includes organizational structure, planning activities, responsibilities, practices, procedures, processes, and resources for, achieving environmental policy.
- Important EMS elements include continual improvement, management commitment, formalization, and awareness of a systems based approach.

Some Basic EMS Definitions

- **Environmental Aspect (Cause)** – The elements of an organization’s activities, products, or services which can interact with the environment.
 - It is important to establish, implement and maintain a procedure to identify the environmental aspects of activities products and services that you “*can control and ...can influence.*”
 - After identifying environmental aspects you must determine those which have or can have significant impacts on the environment.
 - Examples include: air emissions, water discharges, use of raw materials, energy use, use of natural resources, use of volatile organic compounds.

Some Basic EMS Definitions cont.

Environmental Impact (Effect) – Any change to the environment whether adverse or beneficial, wholly or partially resulting from an organizations activities, products, or services.

□ Examples include:

- Depletion of natural resources,
- Air pollution,
- Hazardous waste generation,
- Soil and water contamination.

Aspects and Impacts

Examples



- **Facility Operations**

- Aspect: Office use of electronic equipment
 - Impact: Generation of recyclable waste (paper, batteries, toner cartridges)
- Aspect: Use of solvents, oil, fluorescent lamps, and excess furniture
 - Impact: Land contamination (landfill)
- Aspect: Air emissions from buildings
 - Impact: Air pollution, global warming

Aspects and Impacts

Examples cont.

- **Facility Operations (continued)**
 - Aspect: Motor vehicle operations
(Use of oil, rags, antifreeze, tires, and batteries)
 - Impact: Hazardous waste generation and air pollution
 - Aspect: Custodial Operations
(Use of cleaning products, paper, water, energy)
 - Impact: Depletion of natural resources and contamination of land
 - Aspect: Grounds Maintenance
 - Impact: Depletion of natural resources (pesticides, fertilizer, water use, fossil fuels)

Significant ways MCCS Employees can Impact Environmental Aspects

Purchasing chemicals

- Environmentally friendly (Green chemicals)
- Purchase only what you need i.e. 1 can vs. 1 box

Use of chemicals

- Follow manufactures directions for use
- Dispose of chemicals in accordance with MCCS HAZCOM SOP

Application of pesticides

- Must have a pesticide license to apply

Office products/paper consumption

- Recycle plastics and paper
- Go paperless

Purpose of an EMS

□ An EMS brings together the;

- People
- Policies
- Plans
- Review mechanisms

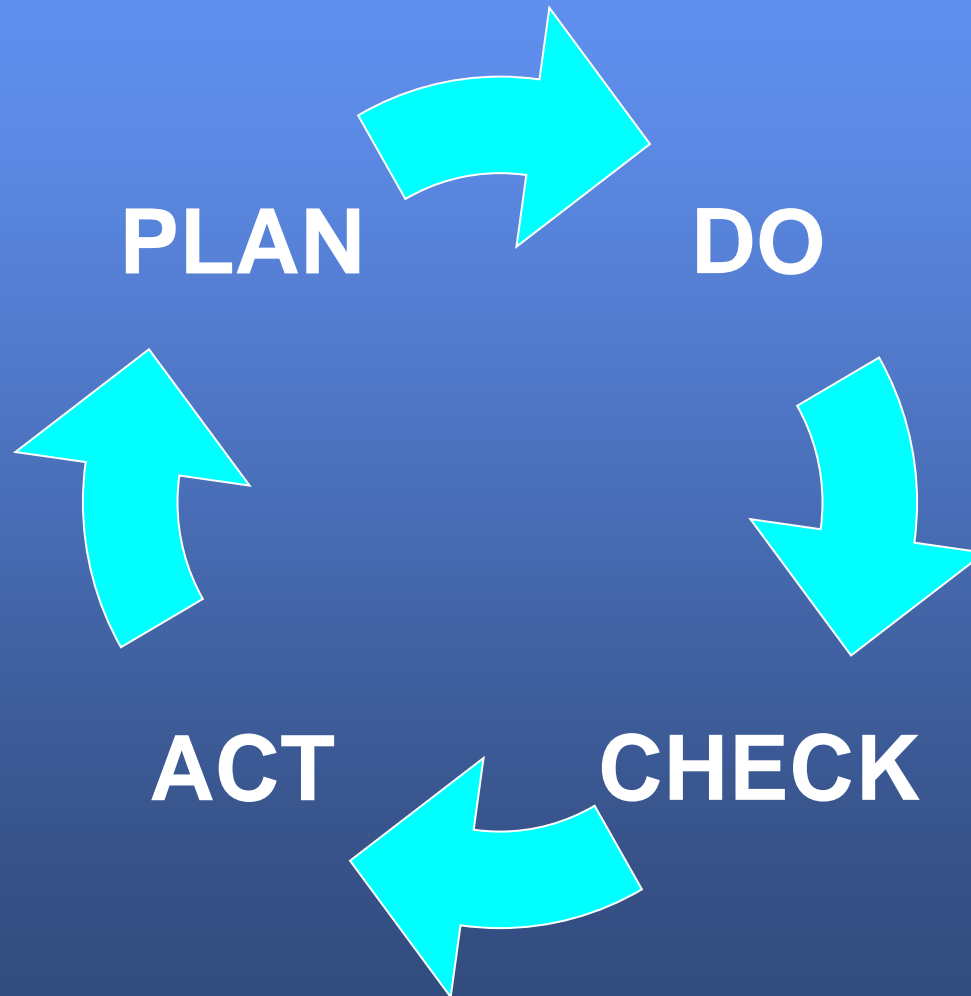
To manage environmental issues at a facility or in an organization

Benefits of an EMS

- Helps maintain compliance with EPA
- Reduced operating costs
- Integrate environmental programs into mission
- Increased employee involvement
- Reduced environmental impacts

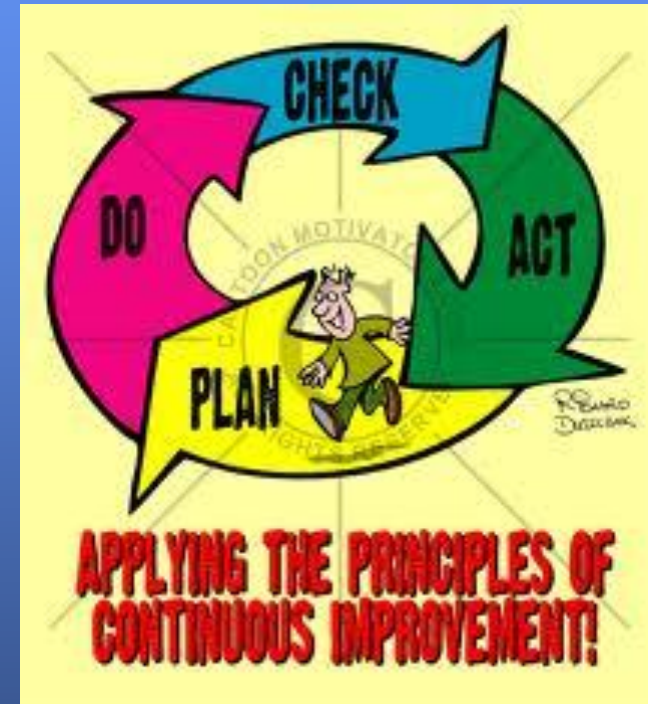
A Basic EMS Framework

Plan, Do, Check, Act



The Continuous Cycle

- **Plan**
Planning, identifying environmental aspects and establishing goals
- **Do**
Implementing, includes training and operational controls
- **Check**
Checking, includes monitoring and corrective action
- **Act**
Reviewing, includes progress reviews and acting to make needed changes



Planning

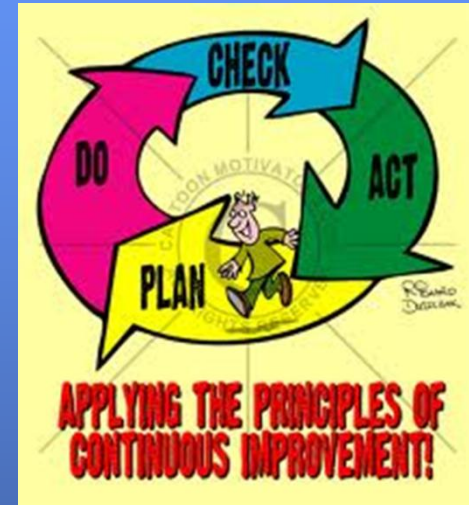
- Identify aspects and impacts from facility activities, products, and services
- Review legal requirements
- Set objectives and targets
- Establish formal EMS program



Do –

Implementation and Operation

- Define roles and responsibilities
- Provide EMS training
- Establish internal and external communication mechanisms
- Establish document control system
- Establish operational controls
- Integrate with or establish emergency preparedness procedures



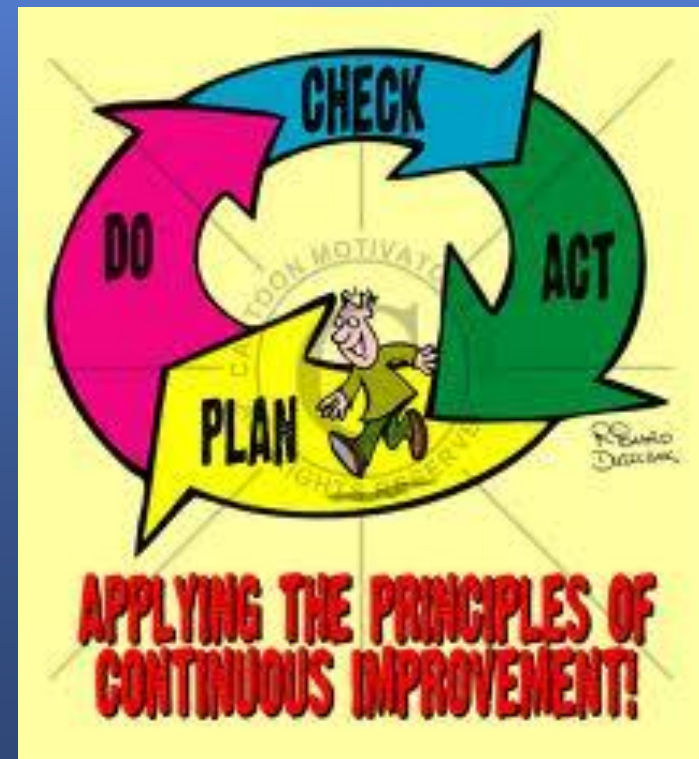
Checking and Corrective Action

- Conduct periodic monitoring of environmental performance
- Identify root causes of findings and conduct corrective and preventive actions
- Maintain environmental records
- Conduct periodic EMS audit



ACT – Management Review

- Conduct periodic senior management review of EMS
- Revise policies as needed



EMS Examples

Pollution Prevention Techniques

- 1. Good housekeeping and maintenance practices**
- 2. Spill prevention and preparedness**
- 3. Inventory management**
- 4. Prudent purchasing**
- 5. Waste exchange programs**
- 6. Alternate cleaning processes**
- 7. Reduce/reuse process wastes**
- 8. Process modifications**
- 9. Changes in equipment or technology**
- 10. Environmentally preferable purchasing**

EMS Examples

Reducing Environmental Impacts.

- ❑ **Reduce, Reuse, Recycle** – Reduce your use of resources such as water. Reuse resources such as office supplies Recycle all batteries, paper, electronics, toner cartridges, metal scraps, metal cans, glass and plastic containers, and fluorescent light bulbs, etc.
- ❑ **Purchasing Requirements** – Government purchasing agents, including credit card holders, are required to follow the Affirmative (Green) Procurement Plan.
- ❑ **Carpool** – Conserve fuel by carpooling to field sites or other work related destinations.

EMS Examples

Environmentally Preferable Purchasing

Products or services that
Have Lesser or Reduced effect on human
health and the environment when compared
with competing products or services that serve
the same purpose.



Your Participation

Managers & Supervisors

- ❑ Employees need support through both motivational (removing old habits) and technical hurdles (understanding MCCS EMS policy).
- ❑ Initial training and periodic refreshers are essential to continuing pollution prevention success.



Your Participation cont.

All personnel have roles and responsibilities at the location for EMS. Your level of participation will vary according to the work you perform. At a minimum, you are responsible for knowing:

- The commitments of the Environmental Policy.
- How your job impacts the environment.
- The procedures/protocols of your job and adhering to them.
- The potential environmental impacts of departing from the procedures of your job.
- The legal and other requirements of your job.

Your Participation cont.

- Must have commitment of top managers.
- An EMS doesn't exist in isolation.
- Must be consistent with other management systems in your organization.
- An EMS must be owned by everyone in your organization.

Summary

- ❑ An EMS is the combination of people, policies, procedures, review, and plans to help address environmental issues.
- ❑ Important EMS elements include continual improvement, management commitment, formalization, and awareness of system approach.

Summary

- ❑ Being a good environmental steward is every MCCS employee's business.
- ❑ Performing your job in an environmentally safe and sound manner benefits us all by protecting the health of the surrounding ecosystem, preserving resources for future generations, being good neighbors, minimizing mission impact due to non-compliance issues, and saving money by decreasing wasted resources.