

Welcome!



**Environmental Management Systems
(EMS) Awareness Training**

Course Objective 1

**Define the
Environmental
Management System
(EMS)**

1

2

3

4



Course Objective 2

**Know the key components of
the Commanding Officer's
Environmental Policy**

1



3

4



Course Objective 3

**Identify Navy Base Guam's
Significant Environmental
Aspects**

1

2



4

Course Objective 4

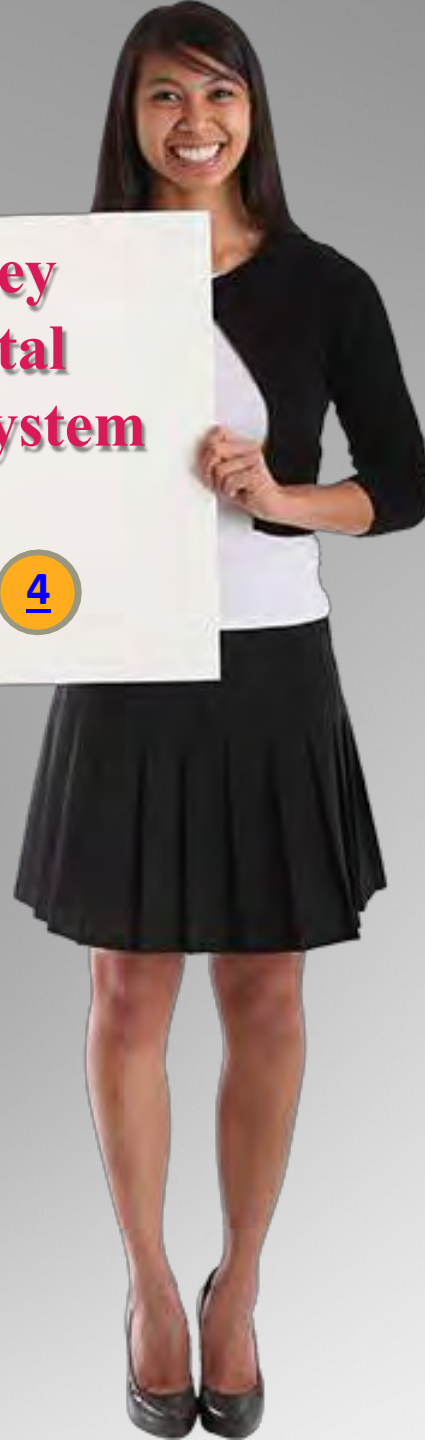
**Recognize key
Environmental
Management System
terms**

1

2

3

4



Course Overview



- 🌍 **This Awareness Training will provide you with a quick overview of Naval Base Guam's Environmental Management Systems (EMS) program.**
- 🌍 **This training is required for all personnel working or performing aboard our installations, including tenants and contractors as set forth by OPNAVINST 5090.1E Section 17.3(g).1.**

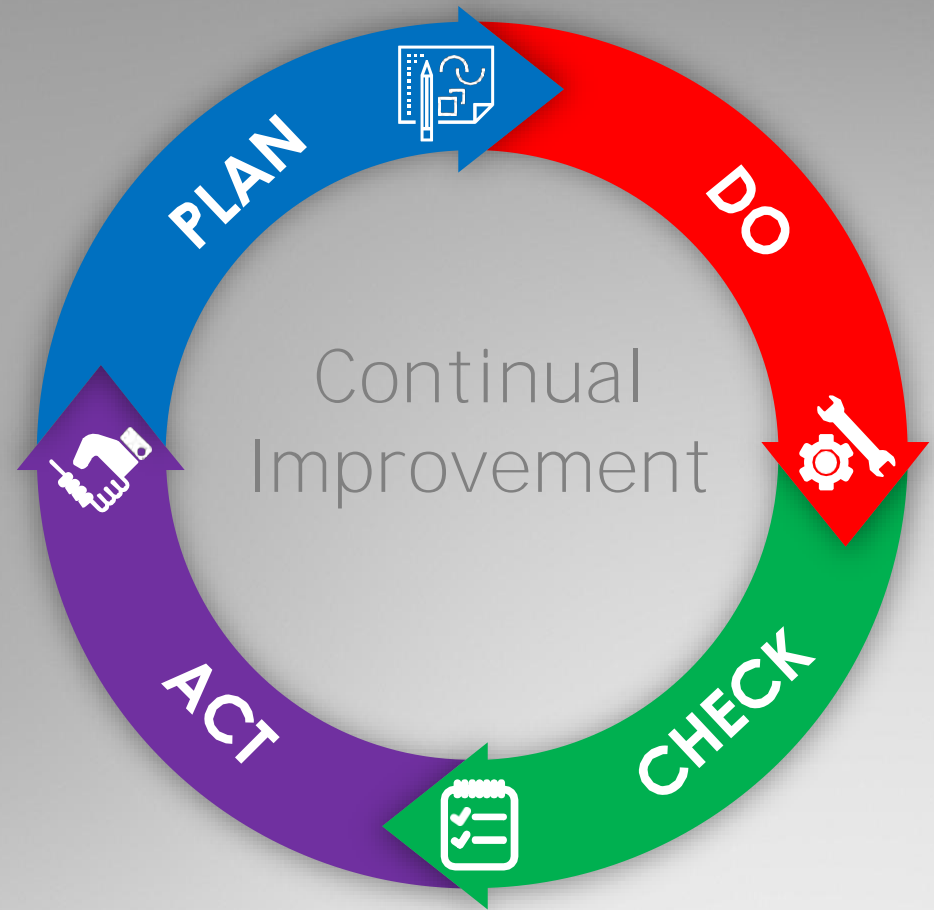
What
is **EMS?**



EMS Definition

What is EMS?

- A quality systematic approach to ensure continual improvement in environmental performance and compliance
- Simply put, it's a **tool** designed to prevent pollution, conserve natural resources, and reduce environmental risks.



EMS is a process of continual improvement in which an organization is constantly reviewing and revising the system.

Learn More



These different parts of the Plan-Do-Check-Act Model all contribute to a successful EMS.

How

Does **EMS**

Work?



Environmental Program Management

Unifying Multiple Programs

EMS is instrumental in managing the many environmental program areas that ensure that Naval Base Guam adheres to all regulations, policies, and procedures.



Without EMS

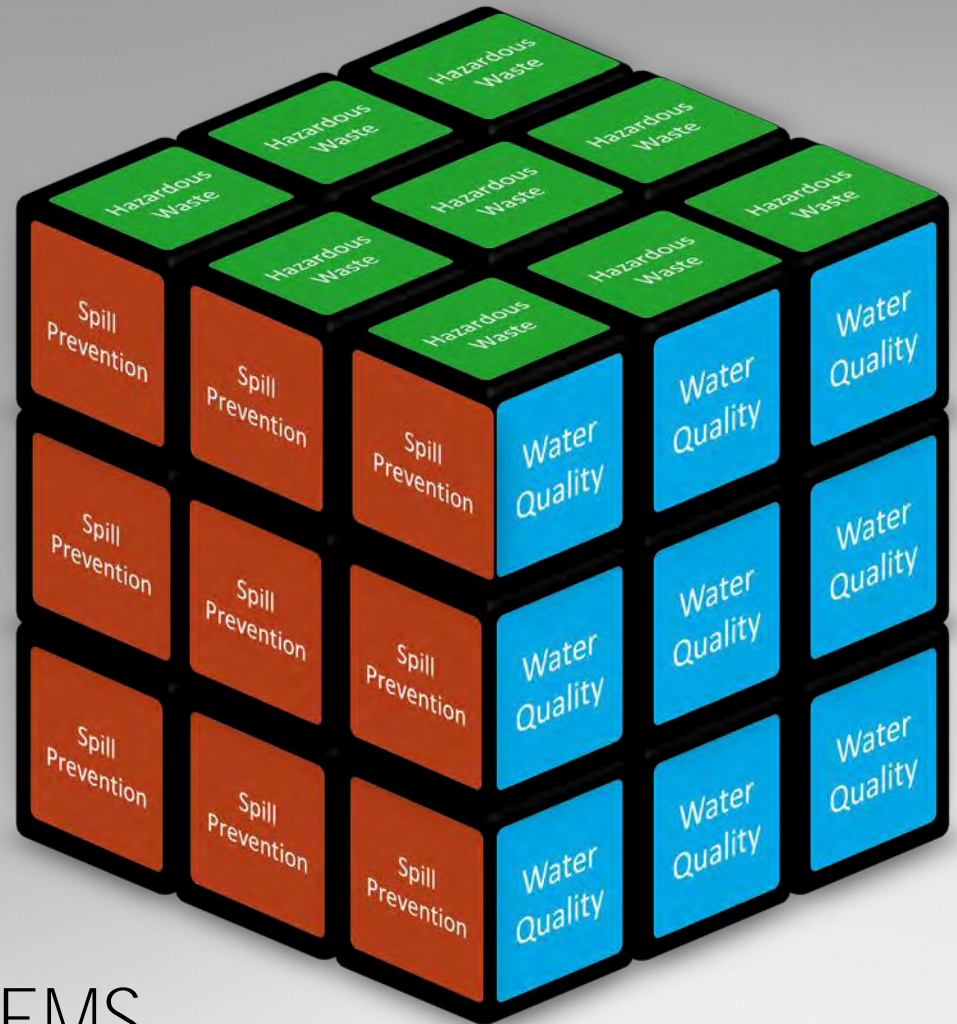
Environmental Program Management

Comprehensive Program Assessment

EMS conformance and environmental program compliance is evaluated annually through Internal Assessments and every 3 years through an External Assessment.

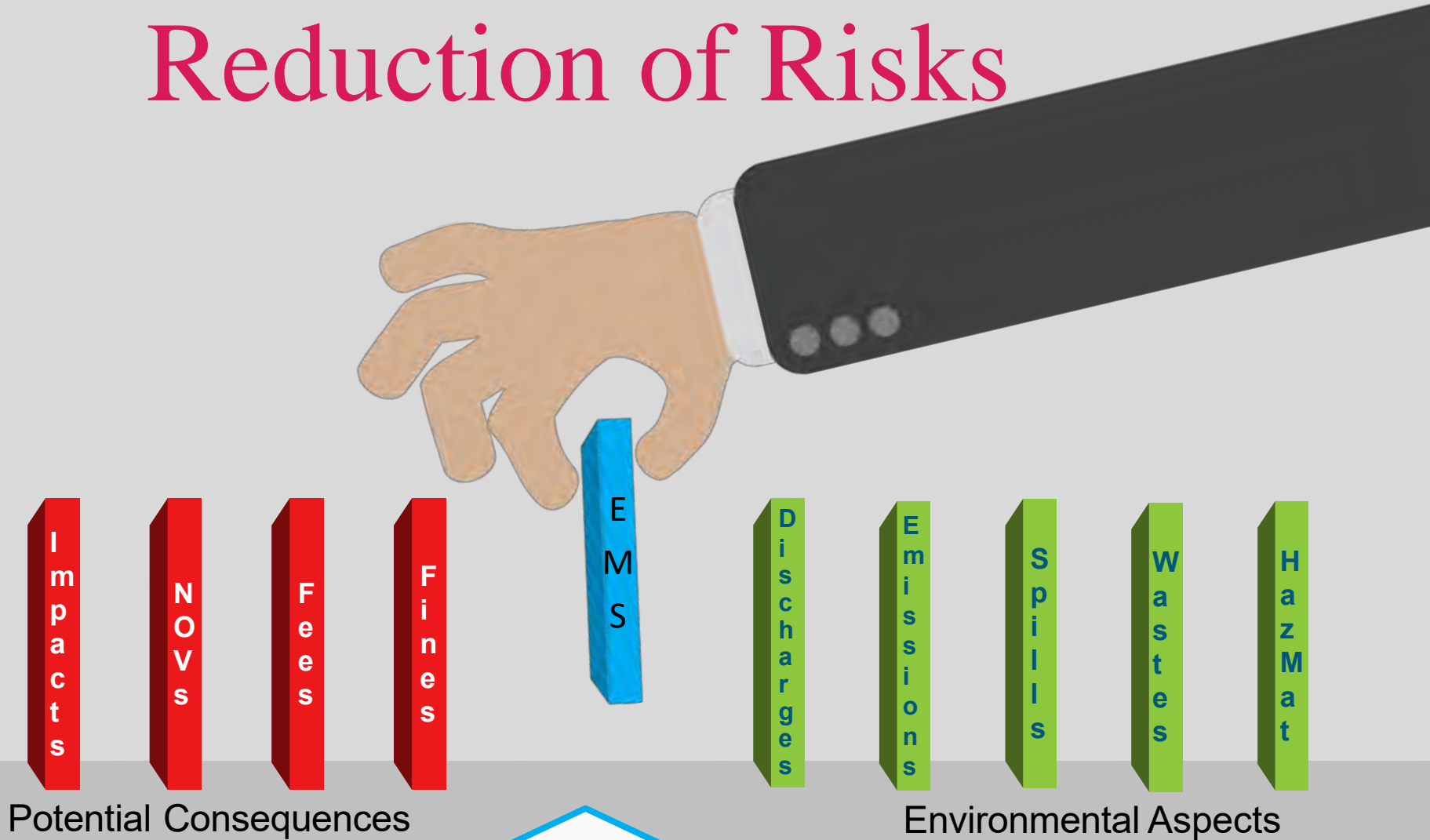
These assessments are referred to as:

- Environmental Management System (EMS) Audits
- Environmental Quality Assurance (EQA) Audits



With EMS

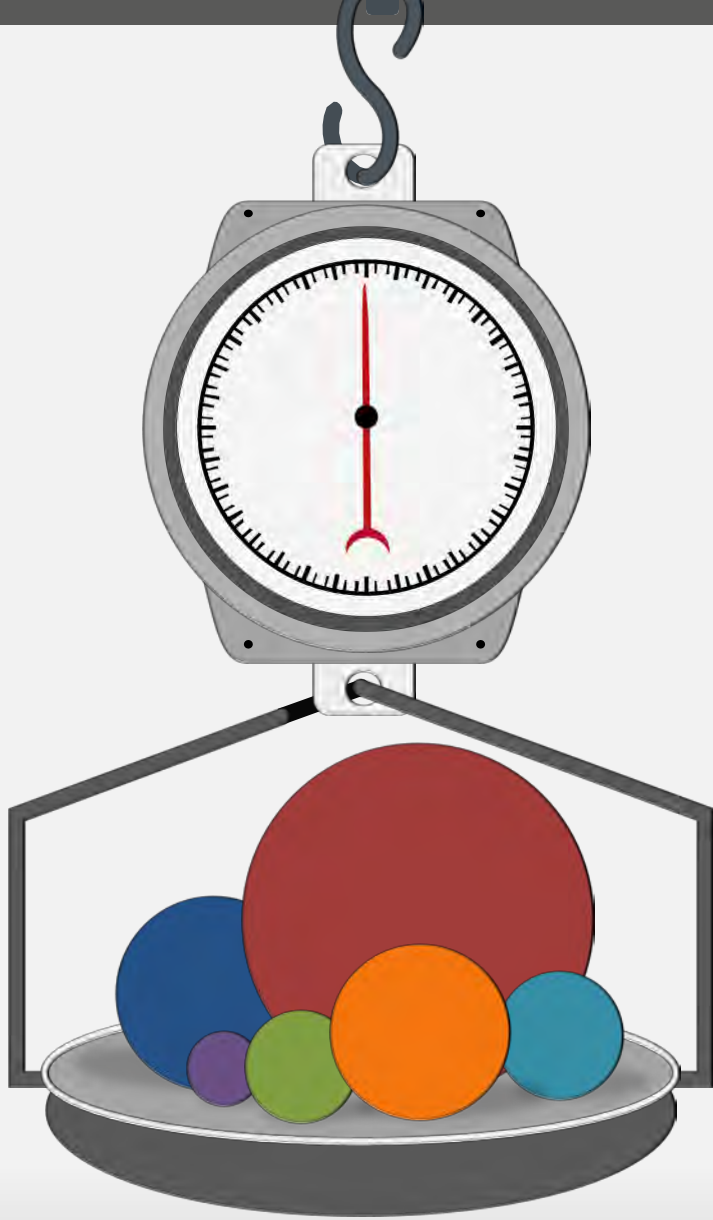
Reduction of Risks



EMS ensures that the environmental aspects associated with an installation's practices adhere to all local, state, and federal regulations to minimize the potential adverse consequences such as Notices of Violation (NOVs) or imposed fines.



What are
The
Benefits
Of EMS?



Benefits of EMS

- Reduces risks to the mission.
- Reduces costs and liability.
- Improves compliance, environmental performance, and public image.
- Increases environmental awareness and stewardship.
- Establishes facility-specific environmental policies, goals, objectives, and targets.
- Establishes accountability by identifying roles and responsibilities.

EMS Success



A successful EMS must also:

- Focus on continual improvement
- Be compatible with organizational culture
- Be flexible enough to fit organizational structure
- Foster employee awareness and involvement

Let's learn

SOME
EMS **Key**
Terms



Practice

Practice
Owner

Aspect

Significant
Aspect

Impact

Resource

Conformance

Compliance

EMS Key Terms

Practice

[Practice](#)

[Practice
Owner](#)

[Aspect](#)

[Significant
Aspect](#)

[Impact](#)

[Resource](#)

[Conformance](#)

[Compliance](#)

- A practice is any process, action, or function with environmental aspects that can have an impact on the environment and other resources.
- Each practice often includes multiple processes, personnel, equipment, and materials.

“What You Do.”

Practice Owner

[Practice](#)

[Practice
Owner](#)

[Aspect](#)

[Significant
Aspect](#)

[Impact](#)

[Resource](#)

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[Compliance](#)

- A practice owner can be a command, department, work center, tenant, shop, or contractor.
- The practice owner is responsible for day-to-day operation of a practice.

“Who Performs the practice?”

Aspect

[Practice](#)

[Practice
Owner](#)

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Aspect](#)

[Impact](#)

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- The environmental aspect of a practice is that part of it that creates a possibility for an environmental impact.
- As such, it is equivalent to the concept of “hazard” in safety.
- Basically, it is the mere possibility of a negative event.

“What could happen?”

Significant Aspect

[Practice](#)

[Practice
Owner](#)

[Aspect](#)

[Significant
Aspect](#)

[Impact](#)

[Resource](#)

[Conformance](#)

[Compliance](#)

- An environmental aspect that has or can have a significant environmental impact.
- To identify the significant environmental aspects associated with your activity's practices you should consider:
 - Emission to air
 - Releases to water
 - Waste management
 - Contamination of land
 - Use of raw materials and natural resources
 - Other local environmental issues

“Plan for the worst case scenario.”

Impact

[Practice](#)

[Practice
Owner](#)

[Aspect](#)

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Aspect](#)


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- Environmental impacts are the effects of a practice's aspect on the environment or other resource.
- Each practice may have an impact on multiple resources.

 Note: quantity is no indication as to the severity of the impact. For instance, any amount of fuel or oil spilled into a waterway or water system can have a significant environmental impact.

“What has happened?”

Resource

[Practice](#)

[Practice
Owner](#)

[Aspect](#)

[Significant
Aspect](#)

[Impact](#)

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- Environmental resources can be defined as elements of the human environment, and include both natural and built resources.
- Three major categories are:
 - Socioeconomic Resources
 - parks, recreation areas, farms, housing, training areas, ranges
 - Cultural Resources
 - historic properties or archaeological sites that have a significant place in history
 - Natural Resources
 - soil, groundwater, streams, rivers, lakes, ocean, wetlands and floodplains, vegetation, and wildlife

“What was impacted?”

Conformance

[Practice](#)

[Practice
Owner](#)

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[Compliance](#)

- EMS Conformance can be defined as strict adherence to the International Standards (ISO 14001:2015) covering environmental management that provides the organization with the elements of an effective EMS that can help the organization achieve its environmental goals.

“Are you following procedures?”

Compliance

[Practice](#)

[Practice
Owner](#)

[Aspect](#)

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Aspect](#)

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[Compliance](#)

- Compliance can be defined as adherence to regulatory requirements (e. g. federal, state, and local environmental laws or directives).

“Are you following the law?”

Practice Aspect Impact

NBG personnel must first understand how their job or action interacts with and affects the environment before they are able to reduce their impact.

Let's use a common practice like administrative or office activities to see how even the most basic practices can have environmental impacts.



Impact: If not recycled, discarded paper becomes solid waste and takes up valuable landfill space.

Impact: Energy use utilizes valuable resources and operating costs are often excessive.

Impact: Discarded items such as plastics can be harmful to Guam's various animal species and aquatic life.

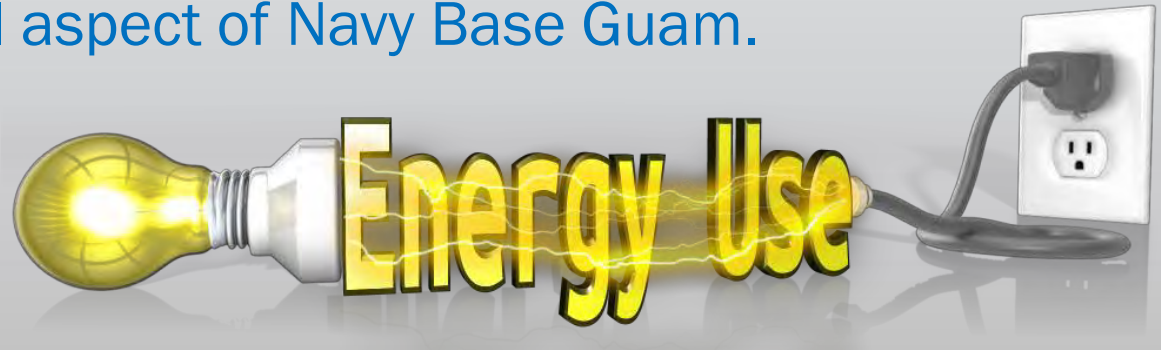
Naval Base Guam's Environmental **Aspects**



An organization's EMS is largely driven by its environmental aspects.

Naval Base Guam has identified its
two most Significant Environmental Aspects (SEA)
and developed annual Objectives and Targets to reduce their impacts.

Energy Use is the most significant
environmental aspect of Navy Base Guam.



Target: Reduce energy intensity by 3%

Objective:

- Ensure new facilities have well-designed energy-saving mechanical and control systems
- Incorporate innovative, renewable, and low emission technologies into facilities.

An organization's EMS is largely driven by its environmental aspects.

Naval Base Guam has identified its
two most Significant Environmental Aspects (SEA)
and developed annual Objectives and Targets to reduce their impacts.

Naval Base Guam's second most significant
environmental aspect is onshore and offshore spills.

Target: Reduce occurrence of spills 5% annually.

Objective:

- Seek continuous improvement of personnel training.
- Improve the Oil and Hazardous Substance Contingency Plan.
- Provide appropriate containment and/or diversionary structures to prevent an oil discharge into navigable waters.



Do You Know
your installation's
Environmental
Policy?



Environmental Policy Statement

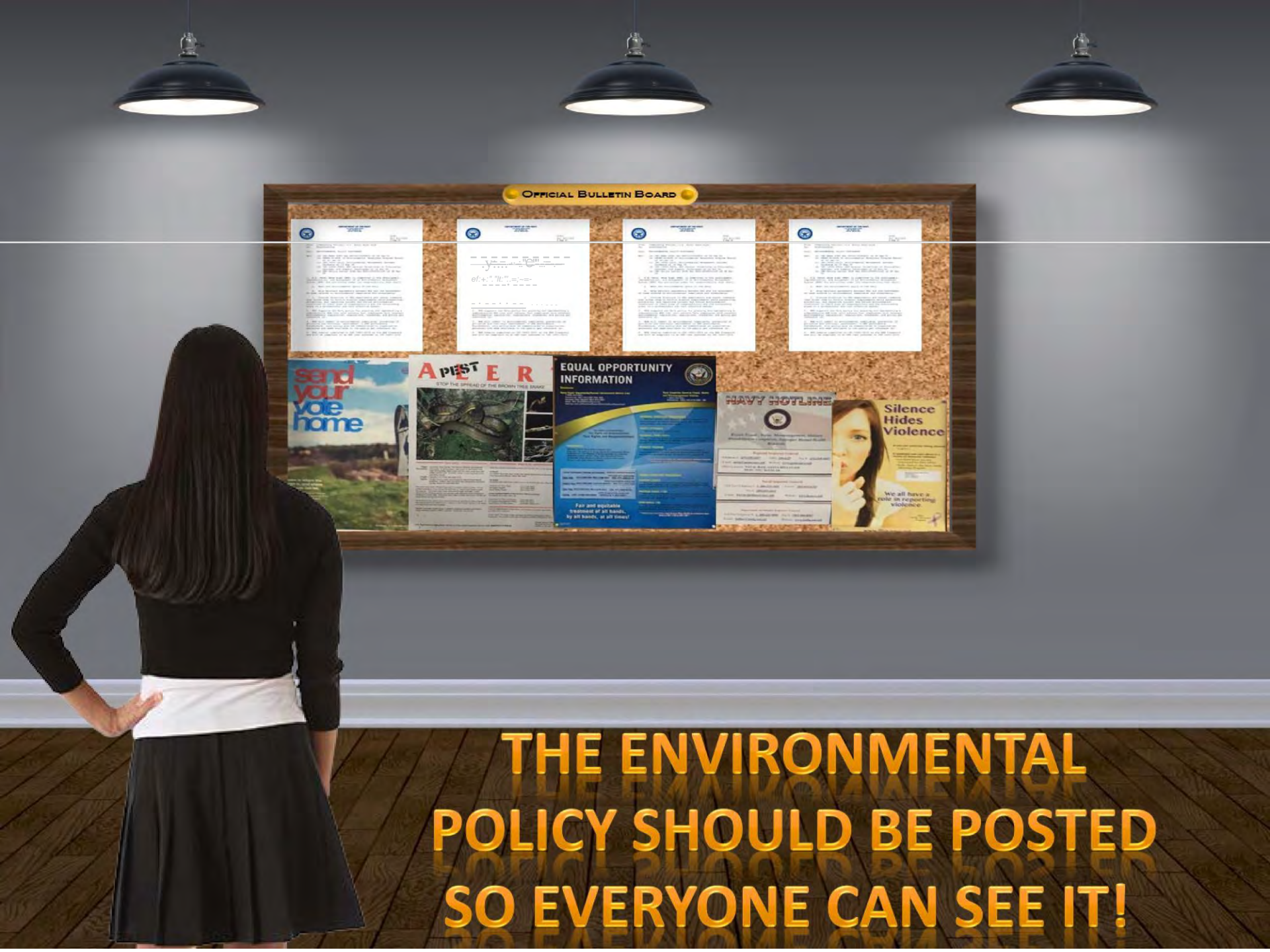
The NBG Environmental Policy commits to:

Prevent Pollution

**Comply with Environmental
Requirements**

**Integrate Environmental Practices
throughout the Installation**

**Continually Improve NBG's
Environmental performance**



THE ENVIRONMENTAL
POLICY SHOULD BE POSTED
SO EVERYONE CAN SEE IT!



What is
your **Role**
and RESPONSIBILITY?

Roles and Responsibilities

All NBG personnel, tenant units, and contractors aboard the installation should:



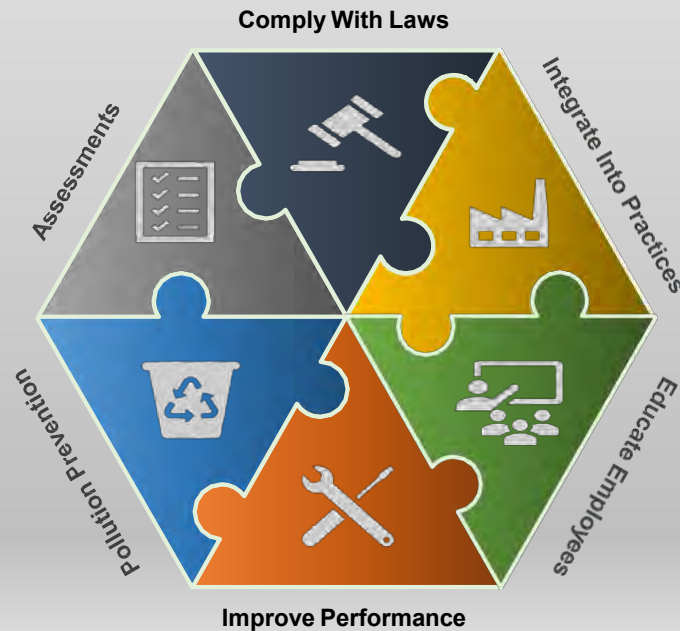
Conduct EMS reviews to assess progression towards environmental goals.



Ensure the implementation of pollution prevention measures and a waste minimization program



Strive to improve our performance through effective environmental management and planning



Comply with all applicable environmental requirements, laws, and regulations



Integrate sound environmental practices into all operations and business practices



Educate employees regarding their environmental responsibilities

Points of Contact

If you have any questions regarding EMS or any other environmental issue, please call the NBG Environmental Department for assistance.

Environmental Program Area	Phone Number
Environmental Director	(671) 339-4100
EMS Coordinator	(671) 339-2065
Natural Resources	(671) 339-2198
Cultural Resources	(671) 339-2093
Hazardous Waste	(671) 339-2158
Water Resources	(671) 339-3711
Spills	(671) 339-5314
Air/Radon	(671) 339-4363



EMS Awareness: Summary

Thank You!

In this course we discussed the Commanding Officer's Environmental Policy Statement; defined EMS and presented key terms used in EMS; and the installation's significant environmental aspects. Remember, you play an important role within EMS because your work practices have an impact on the environment. There are also legal requirements that apply to many of the work activities that you perform on the installation daily.

Additional Resources:



NBG
Environmental
Policy Statement



OPNAV M-
5090.1



ISO
14001:2014



ECATTS
Environmental
Training Portal



EMP- 6
Competence, Training
& Awareness

Need additional
Environmental
Training?

About

ECATTS

The Environmental Compliance Assessment, Training, and Tracking System (ECATTS) is a web-based training platform that provides environmental training to Navy military, civilian, and contractor personnel, worldwide. ECATTS is accessible from any computer with internet access. It is username and password protected, so use of a CAC card is not required.

ECATTS integrates Federal, State, and Local environmental laws, regulations, E.O.s, DoD / DON-specific environmental instructions and installation specific environmental policies into understandable requirements.

Registration

- Navigate to the Navy ECATTS website: <https://environmentaltraining.ecatts.com>
- In the center section of the page, follow directions to create a profile for New Users (if you have a .mil email address, select "CLICK HERE" and a password will be sent to you immediately.)
- Enter the registration password into the box.
- Click "Create"

If you have difficulty creating a profile, click on "ECATTS Support" or call 866-730-4253 for assistance. Additionally, you may email sspalding@ecatts.com for technical support.

Training

There is an extensive library of training modules available that includes the following:

- | | |
|-----------------------|---|
| •Air Pollution | •General Environmental Compliance |
| •Drinking Water | •Hazardous Waste |
| •EPCRA | •Lead-Based Paint |
| •Natural Resources | •RCRA Annual Refresher |
| •Cultural Resources | •Spill Prevention Control and Countermeasures |
| •Pesticides | •Storage Tank Mgmt |
| •Pollution Prevention | |



Congratulations!

*You have finished the
EMS Awareness
training.*

**Please print your certificate that is provided on the next
slide.**

CERTIFICATE OF COMPLETION



This Certificate of Completion is awarded to:

FOR COMPLETION OF EMS AWARENESS TRAINING

The EMS Awareness training is mandatory for all personnel working within the NBG area of responsibility (AOR) including Installation Commanding Officers, as set for by OPNAVINST 5090.1.



Edward Moon

Installation Environmental Program Director

Supervisor Signature