

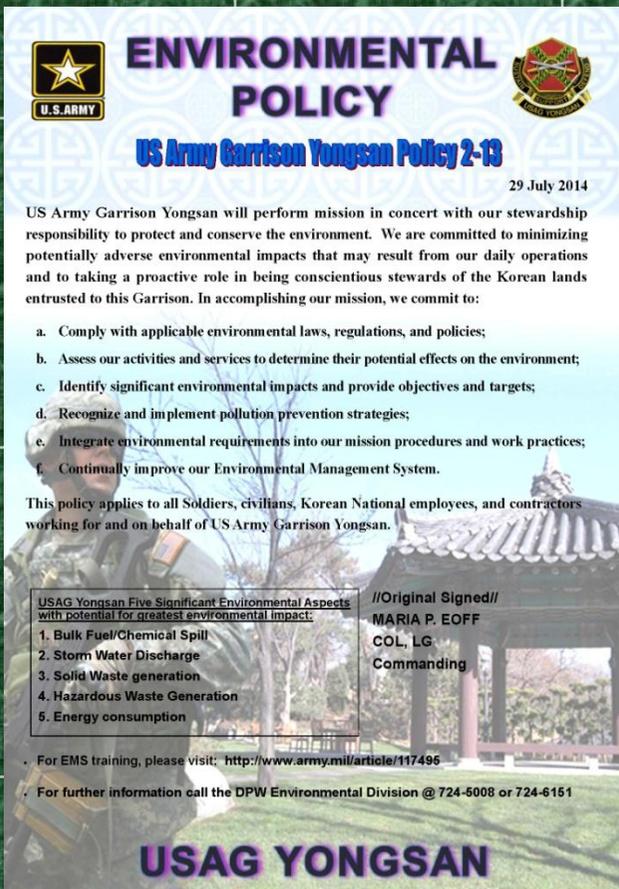


# Environmental Management System (EMS)

Awareness Training  
Module Updated 20150721

Start

# USAG Yongsan Environmental Policy



**ENVIRONMENTAL POLICY**  
**US Army Garrison Yongsan Policy 2-13**  
29 July 2014

US Army Garrison Yongsan will perform mission in concert with our stewardship responsibility to protect and conserve the environment. We are committed to minimizing potentially adverse environmental impacts that may result from our daily operations and to taking a proactive role in being conscientious stewards of the Korean lands entrusted to this Garrison. In accomplishing our mission, we commit to:

- Comply with applicable environmental laws, regulations, and policies;
- Assess our activities and services to determine their potential effects on the environment;
- Identify significant environmental impacts and provide objectives and targets;
- Recognize and implement pollution prevention strategies;
- Integrate environmental requirements into our mission procedures and work practices;
- Continually improve our Environmental Management System.

This policy applies to all Soldiers, civilians, Korean National employees, and contractors working for and on behalf of US Army Garrison Yongsan.

**USAG Yongsan Five Significant Environmental Aspects with potential for greatest environmental impact:**

- Bulk Fuel/Chemical Spill
- Storm Water Discharge
- Solid Waste generation
- Hazardous Waste Generation
- Energy consumption

//Original Signed//  
**MARIA P. EOFF**  
COL, LG  
Commanding

For EMS training, please visit: <http://www.army.mil/article/117495>

For further information call the DPW Environmental Division @ 724-5008 or 724-6151

**USAG YONGSAN**

- Comply with all applicable environmental regulations, polices and directives
- Assess our activities/services to determine potential effects on the environment.
- Implement Objectives and Targets through EMS
- Implement Pollution Prevention (P2) strategies
- Continually Improve our EMS



# What is an EMS and Why is it Important to you?

EMS stands for **Environmental Management System** which is a management approach based on continuous improvement aimed at long term mission sustainability to prioritize and manage the various environmental concerns at an installation.

EMS serves as a framework to systematically identify and reduce an organization's impact on the environment while maintaining mission focus.

## An **EMS**

- Is NOT a computer software program
- Is about management practices and planning
- Involves everyone at all levels of the installation including Senior Leadership

**!** Remember EMS is a management process, not an environmental program.

The fact that you are taking this training means that you are also a crucial and integral part of a successful EMS.



# The EMS Cycle

An EMS is a framework that allows an organization to understand and consistently control the effects of its operations on the environment through a system or cycle of Plan, Do, Check and Act, which promotes continuous improvement and maintains mission focus.

## CONTINUOUS IMPROVEMENT





# The Phases of an EMS

During the **Planning Phase (PLAN)** the environmental aspects and impacts of the installation's activities are identified and prioritized in order to establish environmental goals in support of the mission.

The **Implementing Phase (DO)** involves putting into place operational controls, documented procedures, specific roles and responsibilities, and providing training to manage those activities with high priority or significant aspects.

During the **Checking Phase (CHECK)** the management system is monitored and assessed based on established performance measures. Corrective actions are proposed for non-conformances.

Senior Leadership reviews the performance status of the EMS during the **Review Phase (ACT)** and takes the necessary corrective actions to improve the EMS.

# Understanding Your Potential Impact on the Environmental



Now that you have a basic understanding of the concepts of an EMS, why don't we try to see how your responsibilities and actions are related to a successful EMS.

Let us look further at the following terms.

- **Activities, Products and Services**
- **Environmental Aspects**
- **Environmental Impacts**

# Activities, Products, and Services



Activities, products, and services are best described by the work process performed at an installation everyday.

Examples includes:

- Changing oil in a vehicle, spot painting, repairing an engine
- Producing a report
- Providing heating and cooling, food and administrative services



# Environmental Aspects



An environmental aspect is an element of the organization's activities, products, and services that can interact with the environment. Think of aspects as the "cause" of environmental impacts.

Examples include:

- Waste generation (e.g., used oil, solvent, waste paint)
- Fuel spills
- Paper consumption
- Energy consumption, recycling



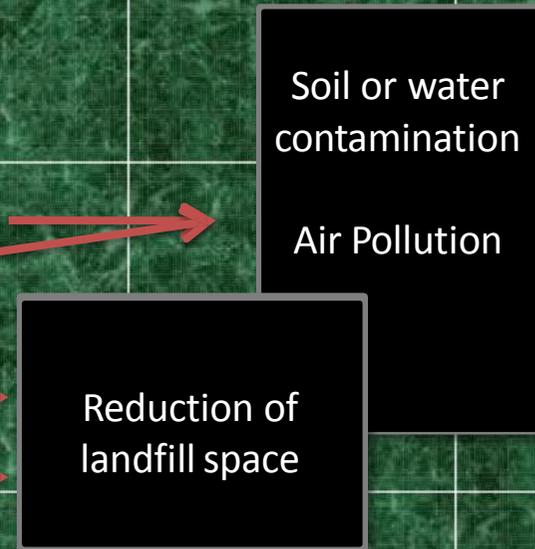
# Environmental Impacts



The environmental impact can be described as any potential change to the environmental aspect and the associated activity, product, or service. Environmental impacts can be thought of as the “effect” in a cause and effect relationship.

Examples includes:

- Waste generation (e.g., used oil, solvent, waste paint)
- Fuel spills
- Paper consumption
- Energy consumption, recycling



# USAG Yongsan

## Significant Environmental Aspects (SEA)



Based on risk analysis of all environmental aspects, USAG Yongsan identified the five most significant. Once it becomes a significant aspect, the Environmental Management Program (EMP) needs to be developed and operational controls will be implemented to reduce the risks.

### USAG Yongsan **Significant Environmental Aspects**

**Bulk Fuel/Chemical Spill**

**Storm Water Discharge**

**Hazardous Waste Generation**

**Solid Waste Generation**

**Energy Consumption**

# USAG Yongsan SEA #1 - Bulk Fuel/Chemical Spill



**Activity:** Receiving (Filling), Storage, and Distribution

**Environmental Aspect:** Uncontrolled  
Accidental Releases (e.g., spill)

**Environmental Impact:** Contaminated Surface  
Waters (e.g., Rivers, Streams, and Ocean); and Soil  
& Groundwater

## **What do we do for Continuous Improvement?**

- Reduce Accidental Spills
- Control Spills



# USAG Yongsan SEA #2

## - Storm Water Discharge



**Activity:** Industrial Activities, Car Wash, and Operation and Maintenance of Oil-Water Separators

**Environmental Aspect:** Contaminants Discharged via Storm water System

**Environmental Impact:** Contaminated Surface Waters (e.g., Rivers, Streams, and Ocean); and Soil & Groundwater

### **What do we do for Continuous Improvement?**

Minimize contaminants in wastewater going into the storm water system; and wastewater generation.





# USAG Yongsan SEA #3 - Solid Waste Generation

**Activity:** Office and Administrative Work; Housing/Billeting Operations; and Solid Waste Management

**Environmental Aspect:** Solid Waste Generation

**Environmental Impact:** Depletion of Landfill Space; and Soil & Groundwater Contamination

## What do we do for Continuous Improvement?

Reduce Solid Waste Generation; and Recycle and Reuse





# USAG Yongsan SEA #4

## - Hazardous Waste Generation

**Activity:** Operation and Maintenance of Housing/Billeting, Industrial Shops, Golf Course, and Landscape

**Environmental Aspect:** Hazardous Waste Generation

**Environmental Impact:** Soil & Groundwater Contamination; Degradation of Air Quality

### **What do we do for Continuous Improvement?**

Minimize Hazardous Waste Generation; Recycle/Reuse; and Use Alternative Chemicals





# USAG Yongsan SEA #5 - Energy Consumption

**Activity:** Office and Administrative Work; and Operation and Maintenance of Facility; Heating & Cooling

**Environmental Aspect:** Consumption of Electrical Power; and Heating Fuel

**Environmental Impact:** Degradation of Air Quality ; Depletion of Fossil Fuel Resources; and Global Warming

**What do we do for Continuous Improvement?**

Comply with Energy Conservation Requirements; Use Sub-metering



# EMS Summary



You have successfully navigated the key concepts of environmental aspects and impacts and how they are related to your work. Hopefully, you now understand how these aspects play a crucial role in the success of an EMS and for environmental stewardship in support of mission sustainability.

USAG Yongsan declared conformance with EMS (ISO 14001) in December 2009. Look for the following and other elements and understand that they are in place because environmental stewardship is an important part of sustaining our mission.

- Environmental Policy
- Significant Aspects
- Your SOPs, Pollution Prevention and Emergency Response Plans

# USAG Yongsan EMS Contact



## EMS Management Representative

Mr. Henry P. Stuart, 738-7455, [henry.p.stuart.civ@mail.mil](mailto:henry.p.stuart.civ@mail.mil)

## Chief of Environmental Division

Mr. Richard E. Santos, 724-5008, [Richard.e.santos2.civ@mail.mil](mailto:Richard.e.santos2.civ@mail.mil)

## EMS Coordinator

Mr. David Sun, 724-6150, [chung.y.sun.civ@mail.mil](mailto:chung.y.sun.civ@mail.mil)

# Test



Ready for the test?

The next screen is the test for this course.  
There are 10 questions on the test and you must select correct answers to pass.

When you are ready to take the test, click [here](#)

If you don't want take test now, click [here](#) or "Esc".



Previous



# Wrong

!

X

Take again

# USAG Yongsan EMS



Environmental Management System (EMS) program is;

- A. Is a computer system and software package.
- B. Is about management practices and planning.
- C. Is about environmental stewardship of an installation.
- D. Both b and c

# USAG Yongsan EMS



A successful Army Environmental Management System (EMS) will:

- A. Reduce mission impact on the environment.
- B. Strive to find better ways to distract inspectors from finding areas of non-compliance.
- C. Maintain a high level of regulatory compliance.
- D. Both a and c.

# USAG Yongsan EMS



Many federal agencies have active and effective pollution prevention programs and waste management activities already underway. These programs cannot be incorporated into an EMS:

- A. True
- B. False

# USAG Yongsan EMS



During which phase of an EMS does senior leadership take the required actions to improve the established EMS Cycle?

- A. Plan
- B. Do
- C. Check
- D. Act

# USAG Yongsan EMS



A successful EMS is the responsibility of:

- A. You
- B. Top leadership
- C. Supervisors and project managers
- D. All the above

# USAG Yongsan EMS



Which of the following is not a USAG Yongsan Significant Environmental Aspect?

- A. Spills related to Bulk Fuel Management
- B. Hazardous Waste Generation
- C. Air Emissions management
- D. Energy Consumption

# USAG Yongsan EMS



Which of the following is a part of the USAG Yongsan Environmental Policy?

- A. Comply with environmental laws and regulations
- B. Identify and Implement Pollution Prevention strategies
- C. Seek opportunities to Continuous Improvement
- D. All of the above.

# USAG Yongsan EMS



To reduce mission impacts, the Army focuses on activities that happen on site and in the field.

A. True

B. False

# USAG Yongsan EMS



Only senior leadership and the environmental office need to understand what an EMS is and their EMS responsibilities.

A. True

B. False

# USAG Yongsan EMS



What can you expect to see from your senior leadership regarding EMS?

- A. Determine how your site impacts the environment.
- B. Set achievable objectives to address significant environmental aspects.
- C. Designate unit Environmental Officer and responsibilities.
- D. All of the above.



# Congratulation!

You have completed USAG Yongsan  
EMS Awareness Training.

Click the button below for your certificate and  
send the printed certificate to USAG Yongsan EMS

Coordinator  
Mr. David Sun

Mr. David Sun, 724-6150, chung.y.sun.civ@mail.mil

Certificate



# Directorate of Public Works Environmental Division



US Army Garrison Yongsan

## **CERTIFICATE OF TRAINING**

**AWARDED TO**

Name: \_\_\_\_\_

For Successful Completion of the  
**Environmental Management System Awareness Training**

As required by USAG Yongsan EMS

E-mail: \_\_\_\_\_

Date: \_\_\_\_\_

**PRINT**