

AMERICAN GLOBAL INSTITUTE
FOR PRIVATE TRAINING



External Training Course

Comprehensive EHS Management: Safety Engineering, Compliance, Equipment Safety, and Environmental Stewardship

From 21 Apr. To 25 Apr. 2025

From 14 Jul. To 18 Jul. 2025

From 03 Nov. To 07 Nov. 2025

**Citadines Central Shinjuku Tokyo
Tokyo, Japan**

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External Training Course:

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Fess: 2500 KD

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Course Overview

This intensive 5-day training program provides participants with a thorough understanding of Environment, Health, and Safety (EHS) management principles. The course covers safety engineering, regulatory compliance, equipment safety, and environmental stewardship to ensure robust risk management and sustainable industrial operations.

Course Objectives

By the end of this course, participants will be able to:

- Understand the key components of an effective EHS management system.
- Apply safety engineering principles to minimize workplace hazards.
- Navigate and comply with international and regional EHS regulations.
- Assess and enhance equipment safety protocols.
- Implement environmental protection and sustainability initiatives.
- Develop proactive strategies for incident prevention and risk mitigation.

Who Should Attend?

This course is designed for:

- EHS Managers and Officers.
- Safety Engineers.
- Compliance Officers.
- Operations and Maintenance Personnel.
- Facility Managers.
- Environmental Engineers & Specialists.
- Risk Management Professionals.
- Anyone responsible for workplace safety and regulatory compliance.

Course Outline

Day 1: Foundations of EHS Management & Safety Engineering

- Introduction to EHS management systems (ISO 45001, ISO 14001).
- Fundamentals of safety engineering in industrial environments.
- Risk assessment techniques: HAZID, HAZOP, FMEA.
- Identifying workplace hazards and risk controls.
- Safety culture and leadership in EHS.

Day 2: Regulatory Compliance & Legal Frameworks

- Overview of international safety and environmental regulations (OSHA, EPA, NFPA, ISO).
- Understanding local and industry-specific EHS requirements.
- Compliance audits and reporting procedures.
- Legal implications of non-compliance.
- Strategies for maintaining regulatory compliance.

Day 3: Equipment Safety & Hazard Prevention

- Machinery and equipment safety standards (LOTO, guarding, maintenance).
- Electrical safety and explosion protection (ATEX, IEC standards).
- Personal Protective Equipment (PPE) selection and use.
- Emergency response planning and incident investigation.
- Best practices in equipment maintenance for safety.

Day 4: Environmental Stewardship & Sustainability

- Environmental risk management and pollution prevention.
- Waste management, water conservation, and air quality control.
- Sustainability strategies in industrial operations.
- Carbon footprint reduction and green energy initiatives.
- Environmental impact assessments and mitigation measures.

Day 5: Incident Prevention, Risk Management & Continuous Improvement

- Advanced risk management strategies.
- Behavioral safety and human factors in accident prevention.
- Incident analysis and root cause investigations.
- Developing and implementing EHS improvement plans.
- Case studies and practical exercises.

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Training Methodology

- Interactive lectures and discussions.
- Real-world case studies and best practices.
- Hands-on exercises and group activities.
- Regulatory compliance workshops.
- Incident simulation and role-playing exercises.

Course Benefits

- Gain a solid understanding of modern EHS management techniques.
- Enhance workplace safety and environmental responsibility.
- Ensure compliance with global and regional EHS regulations.
- Improve risk assessment and incident prevention capabilities.
- Strengthen leadership and decision-making in EHS management.



Program Agenda:

(1st Day) Agenda

8.30	9.00	Opening Remarks (30 Min.).
9.00	11.30	<u>DISCUSS COURSE OBJECTIVES:</u> <ul style="list-style-type: none"> • Foundations of EHS Management & Safety Engineering. • Regulatory Compliance & Legal Frameworks. • Equipment Safety & Hazard Prevention. • Environmental Stewardship & Sustainability. • Incident Prevention, Risk Management & Continuous Improvement.
11.30	12.00	Coffee Break
12.00	14.00	<u>Foundations of EHS Management & Safety Engineering:</u> <ul style="list-style-type: none"> • Introduction to EHS management systems (ISO 45001, ISO 14001). • Fundamentals of safety engineering in industrial environments. • Risk assessment techniques: HAZID, HAZOP, FMEA. • Identifying workplace hazards and risk controls. • Safety culture and leadership in EHS.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(2nd Day) Agenda

9.00	11.30	<u>Regulatory Compliance & Legal Frameworks:</u> <ul style="list-style-type: none"> • Overview of international safety and environmental regulations (OSHA, EPA, NFPA, ISO). • Understanding local and industry-specific EHS requirements. • Compliance audits and reporting procedures. • Legal implications of non-compliance. • Strategies for maintaining regulatory compliance.
11.30	12.00	Coffee Break
12.00	14.00	<u>Formation Damage Prevention and Remediation:</u> <ul style="list-style-type: none"> • Wellbore cleaning and perforation techniques. • Case studies on formation damage prevention.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(3rd Day) Agenda

9.00	11.30	<u>Equipment Safety & Hazard Prevention:</u> <ul style="list-style-type: none"> • Machinery and equipment safety standards (LOTO, guarding, maintenance). • Electrical safety and explosion protection (ATEX, IEC standards). • Personal Protective Equipment (PPE) selection and use.
11.30	12.00	Coffee Break
12.00	14.00	<u>Equipment Safety & Hazard Prevention:</u> <ul style="list-style-type: none"> • Emergency response planning and incident investigation. • Best practices in equipment maintenance for safety.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(4th Day) Agenda

9.00	11.30	<u>Environmental Stewardship & Sustainability:</u> <ul style="list-style-type: none"> • Environmental risk management and pollution prevention. • Waste management, water conservation, and air quality control. • Sustainability strategies in industrial operations.
11.30	12.00	Coffee Break
12.00	14.00	<u>Environmental Stewardship & Sustainability:</u> <ul style="list-style-type: none"> • Carbon footprint reduction and green energy initiatives. • Environmental impact assessments and mitigation measures.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch

(5th Day) Agenda

9.00	11.30	<u>Incident Prevention, Risk Management & Continuous Improvement:</u> <ul style="list-style-type: none"> • Advanced risk management strategies. • Behavioral safety and human factors in accident prevention. • Incident analysis and root cause investigations.
11.30	12.00	Coffee Break
12.00	14.00	<u>Incident Prevention, Risk Management & Continuous Improvement:</u> <ul style="list-style-type: none"> • Developing and implementing EHS improvement plans. • Case studies and practical exercises.
14.00	14.30	Questions and Discussion
14.30		Buffet Lunch