

COURSE OVERVIEW HE1906
Waste Segregation Strategies

Course Title

Waste Segregation Strategies

Course Date/Venue

October 07-11, 2024/ Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference

HE1906

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.



This course is designed to provide participants with a detailed and up-to-date overview of Waste Segregation Strategies. It covers the global waste management challenges and importance of effective waste segregation; the classification of waste types (organic, inorganic, hazardous, non-hazardous) and their characteristics; and the basic principles and benefits of segregating waste at the source including regulatory framework for waste management.



Further, the course will also discuss the environmental consequences of improper waste handling and disposal; the key infrastructure elements needed for effective segregation at source, collection and processing stages; the waste segregation in residential communities; the technological tools and innovations that support waste segregation and management; the best practices in the collection and safe transportation of different types of segregated waste; and the economics of waste segregation, technologies for treating and recycling segregated waste and special considerations and protocols for handling hazardous waste

During this interactive course, participants will learn the metrics and methodologies for assessing the performance of waste segregation initiatives; the sustainable practices that reduce waste generation and promote recycling and reuse; how to craft and advocate for policies that enforce and enhance waste segregation and management; the emerging global trends and innovative practices in waste management; building partnerships among government, private sector, NGOs and communities; the effective communication and education campaigns to raise awareness about waste segregation; how waste segregation fits into the broader concept of a circular economy and striving towards zero waste; how improved waste management and segregation can mitigate climate change impacts; and the future technological advancements and their potential impact on waste segregation strategies.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on waste segregation strategies
- Discuss the global waste management challenges and the importance of effective waste segregation
- Classify waste types (organic, inorganic, hazardous, non-hazardous) and their characteristics
- Explain the basic principles and benefits of segregating waste at the source including regulatory framework for waste management
- Discuss the environmental consequences of improper waste handling and disposal
- Identify the key infrastructure elements needed for effective segregation at source, collection and processing stages
- Implement waste segregation in residential communities including technological tools and innovations that support waste segregation and management
- Employ best practices in the collection and safe transportation of different types of segregated waste
- Discuss economics of waste segregation, technologies for treating and recycling segregated waste and special considerations and protocols for handling hazardous waste
- Monitor and evaluate metrics and methodologies for assessing the performance of waste segregation initiatives
- Apply sustainable practices that reduce waste generation and promote recycling and reuse
- Explain how to craft and advocate for policies that enforce and enhance waste segregation and management
- Examine the emerging global trends and innovative practices in waste management
- Build partnerships among government, private sector, NGOs and communities
- Design effective communication and education campaigns to raise awareness about waste segregation

- Discuss how waste segregation fits into the broader concept of a circular economy and striving towards zero waste
- Analyze how improved waste management and segregation can mitigate climate change impacts
- Discuss the future technological advancements and their potential impact on waste segregation strategies

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials, sample video clips of the instructor’s actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.

Who Should Attend

This course provides an overview of all significant aspects and considerations of waste segregation strategies for environmental managers, facility managers, waste management professionals, sustainability officers and anyone interested in environmental sustainability.

Course Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Accommodation


Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations


Certificates are accredited by the following international accreditation organizations: -

- 
The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

- 
British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Raymond Tegman is a **Senior HSE Consultant** with extensive experience within the **Oil & Gas, Petrochemical and Refinery** industries. His broad expertise widely covers in the areas of **Waste Management**, Strategies, **Waste Management, Rigging Safety Rules, Machinery & Hydraulic Lifting Equipment, Handling Hazardous Chemicals, Spill Containment, Fire Protection, Fire Precautions, Incidents & Accidents Reporting, HSEQ Audits & Inspection, HSEQ Procedures, Environmental Awareness, Waste Management Monitoring, Emergency Planning, Emergency Management, Working at Heights, Root Cause Analysis, HSE Rules & Regulations, Process Safety Management (PSM), Process Hazard Analysis (PHA), Techniques, HAZOP, HSE Risk, Pre-Start-up Safety Reviews, HSE Risk Identification, Assessments & Audit, HSE Risk Assessment & Management Concepts, HSE Management Policy & Standards, HSE Emergency Response & Crisis Management Operations, Confined Space Entry, Quantitative Risk Assessment (QRA), Hazardous Materials & Chemicals Handling, Safety Precaution & Response Action Plan, Hazard & Risk Assessment, Task Risk Assessment (TRA), Incident Command, Accident & Incident Investigation, Emergency Response Procedures, Job Safety Analysis (JSA), Behavioural Based Safety (BBS), Fall Protection, Work Permit & First Aid, Lock-out/Tag-out (LOTO), Emergency Response, Construction Supervision, Scaffolding Inspection, HAZCHEM, Manual Material Handling, Road Traffic Supervision, ISO 9001 and OHSAS 18001.**

During his career life, Mr. Tegman has gained his practical and field experience through his various significant positions and dedication as the **Operations Manager, Safety & Maintenance Manager, Safety Manager, Road/Traffic Supervisor, Assessor/Moderator, Safety Consultant, Safety Advisor, Safety Officer and Liaison Officer** from Zero Harm, SHRA Training & Services (Health & Safety), Road Crete, Balwin Property Development, DEME International, Gladstone Australia, Godavari Gas Pipeline and New Castle NCIG.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Monday, 07th of October 2024

0730 – 0800	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0930	Introduction to Waste Management <i>Global Waste Management Challenges and the Importance of Effective Waste Segregation</i>
0930 – 0945	<i>Break</i>
0945 – 1030	Types of Waste <i>Classification of Waste Types (Organic, Inorganic, Hazardous, Non-Hazardous) and their Characteristics</i>
1030 – 1130	Principles of Waste Segregation <i>The Basic Principles and Benefits of Segregating Waste at the Source</i>
1130 – 1215	Regulatory Framework for Waste Management <i>International and National Regulations Governing Waste Management and Segregation</i>
1215 – 1230	<i>Break</i>
1230 – 1330	Environmental Impact of Waste Mismanagement <i>Discussion on the Environmental Consequences of Improper Waste Handling and Disposal</i>
1330 – 1420	Case Studies: Successful Waste Segregation Models <i>Review of Successful Waste Segregation Initiatives Around the World and Lessons Learned</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day One</i>

Day 2: Tuesday, 08th of October 2024

0730 – 0830	Infrastructure Requirements for Waste Segregation <i>Key Infrastructure Elements Needed for Effective Segregation at Source, Collection, and Processing Stages</i>
0830 – 0930	Implementing Segregation Practices in Residential Areas <i>Strategies and Challenges in Implementing Waste Segregation in Residential Communities</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Waste Segregation in Commercial & Institutional Settings <i>Custom Approaches for Offices, Schools, And Hospitals</i>
1100 – 1215	Technological Tools & Innovations in Waste Management <i>Technology Solutions That Support Waste Segregation and Management (e.g., RFID, IoT Sensors)</i>
1215 – 1230	<i>Break</i>
1230 – 1300	Behavioral Change & Community Engagement <i>Techniques to Promote and Sustain Behavioral Change for Effective Waste Segregation Among Different Stakeholders</i>
1300 – 1420	Workshop: Designing a Waste Segregation System <i>Participants Design a Waste Segregation System Tailored to Specific Contexts (Urban, Rural, Institutional)</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day Two</i>

Day 3: Wednesday, 09th of October 2024

0730 – 0830	Collection & Transportation of Segregated Waste <i>Best Practices in the Collection and Safe Transportation of Different Types of Segregated Waste</i>
0830 – 0930	Economics of Waste Segregation <i>The Financial Aspects, including Cost-Benefit Analysis, Funding, and Economic Incentives</i>
0930 – 0945	Break
0945 – 1100	Waste Treatment Technologies <i>Technologies for Treating and Recycling Segregated Waste (Composting, Anaerobic Digestion, Material Recovery Facilities)</i>
1100 – 1215	Challenges in Hazardous Waste Management <i>Special Considerations and Protocols for Handling Hazardous Waste</i>
1215 – 1230	Break
1230 – 1330	Monitoring & Evaluation of Waste Segregation Programs <i>Metrics and Methodologies for Assessing the Performance of Waste Segregation Initiatives.</i>
1330 – 1420	Interactive Session: Problem-Solving in Operational Challenges <i>Group Activity to Address Common Operational Challenges in Waste Segregation through Case-Based Learning</i>
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4: Thursday, 10th of October 2024

0730 – 0830	Sustainable Waste Management Practices <i>Exploration of Sustainable Practices that Reduce Waste Generation and Promote Recycling and Reuse</i>
0830 – 0930	Policy Making for Effective Waste Management <i>How to Craft and Advocate for Policies that Enforce and Enhance Waste Segregation and Management</i>
0930 – 0945	Break
0945 – 1100	Global Trends & Innovations in Waste Management <i>Examination of Emerging Global Trends and Innovative Practices in Waste Management</i>
1100 – 1215	Building Partnerships for Waste Segregation Initiatives <i>Strategies for Forming Partnerships Among Government, Private Sector, NGOs, and Communities</i>
1215 – 1230	Break
1230 – 1330	Public Education & Awareness Campaigns <i>Designing Effective Communication and Education Campaigns to Raise Awareness About Waste Segregation</i>
1330 – 1420	Role Play: Stakeholder Engagement & Policy Advocacy <i>Role-Play Exercise on Engaging Different Stakeholders and Advocating for Policy Changes</i>
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5: Friday, 11th of October 2024

0730 – 0930	Circular Economy & Zero Waste Goals <i>How Waste Segregation Fits into the Broader Concept of a Circular Economy and Striving Towards Zero Waste</i>
0930 – 0945	Break
0945 – 1100	Impact of Waste Segregation on Climate Change <i>Analysis of How Improved Waste Management and Segregation can Mitigate Climate Change Impacts</i>
1100 – 1230	Future Technologies in Waste Management <i>Discuss Future Technological Advancements and their Potential Impact on Waste Segregation Strategies</i>
1230 – 1245	Break
1245 – 1345	Case Study Workshop: Developing a Comprehensive Waste Management Plan <i>Participants Use Case Studies to Develop a Comprehensive Waste Management and Segregation Plan</i>
1345 – 1400	Course Conclusion
1400 – 1415	POST-TEST
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org