



WE096: Waste and Environmental Management





Training Description:

This intensive course is great for anyone working in waste management or the broader field of environmental management. This course complements many of our other environmental courses; but is equally valuable as a training program for those who wish to develop a broad overview of the nature and scope of waste, and the many ways it can be treated in today's world.

A comprehensive introduction to "environmentally friendly waste disposal".

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Explain the nitrogen cycle and how it relates to waste treatment
- ✓ Determine the economic considerations of different waste disposal systems
- ✓ Compare industrial waste management with domestic waste management procedures
- ✓ Determine the principles of "polluter pays" legislation and how it is applied
- ✓ Describe how a budget is applied to managing a specific waste management enterprise
- ✓ Discuss issues in nuclear power and nuclear waste technology (including hospital waste)
- ✓ Explain the cyclic nature of the water system and its relationship to environmental waste management
- ✓ Monitor and recommend improvements to a specified recycling enterprise

Training Designed for:

No prior environmental management experience is required; however, each delegate should take time prior to attending to get familiar with their organisation's waste management practice to gain the maximum benefit. This will allow each delegate to relate the elements covered in the training to their own organisation.

Training Program:

FIVE DAYS:

- ❖ Pre-Test
- ❖ Introduction
- ❖ Domestic Waste
 - Definitions
 - The Earth's environment
 - Conservation and use of resources
 - Value of resources (ie. economic, ecological, aesthetic)
 - Damage being caused
 - Urbanisation
 - Human impacts
 - Treating sewage
 - Characteristics of sewage
 - Sewage composition (eg. solids, organic material, industrial waste)
 - Decomposition of sewage
 - The nitrogen cycle





- Sewage system types
- Storm water systems and management
- Dry rubbish
- Nature of refuse
- Placement and protection of bins
- Trade waste
- Refuse collection systems
- Refuse collection vehicles
- Salvage materials
- Safe disposal of household chemicals
- ❖ **Street Cleaning and Refuse Disposal**
 - Types of street refuse
 - Street cleaning Techniques (eg. gritting, sanding, sweeping, washing)
 - Water pits
 - Snow
 - Refuse disposal (eg. separation, controlled tipping, combustion, pulverisation)
 - Refuse for fertiliser
 - Methods of refuse Sorting (eg. screening, magnetic, hand sorting)
 - Incinerators
 - Vacuum systems (eg. garchey, gandillon)
 - Harvesting energy from combustion
- ❖ **Industrial Waste**
 - Types of industrial pollution
 - The greenhouse effect
 - Ozone depletion
- ❖ **Toxic and Nuclear Waste**
 - Nuclear power
 - Nuclear fission
 - Mining nuclear fuel
 - Uranium enrichment
 - Gas diffusion
 - Gas centrifuge
 - Nuclear waste
 - Transporting nuclear waste
 - Reprocessing
 - Health risks of nuclear waste
- ❖ **Water Quality and Treatment**
 - Industrial effluent
 - Pricing or direct control
 - Water impurities
 - Scope of purification
 - Managing public water supply
 - Water treatment methods



- Purification methods (eg. sedimentation, filtration, disinfection, aeration, screening)
- Recycling sewage water
- Recycling waste water
- Reed bed treatment
- Water quality management (reducing physical, chemical, biological impurities)
- Water borne diseases
- ❖ **Recycling Waste**
 - Scope and nature of recycling
 - Rubbish tips (dumps)
 - Recycling plastics
 - Recycling metals
 - Recycling glass
 - Recycling paper
 - Recycling rubber
 - Actions by individuals (at home or work) for reducing, reusing and recycling waste
- ❖ Course Conclusion
- ❖ POST-TEST and EVALUATION

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.

Please note that the above topics can be amended as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant’s manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.





Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

Aisha Relativo: aisha@cmc-me.com

Tel.: +971 2 665 3945 or +971 2 643 6653 | Mob.: +971 52 2954615

Training & Career Development Department

