



HS073: Environmental Management & Technology (EMT): *Environmental Engineering, Management, Impact Assessment & Sustainability Reporting*

Training Description:

The Environmental Management and Technology (EMT) Research Group was established in 2006 as a result of a merger between the groups of Environmental Management and Environmental Health. The group's vision is to become a world leader institution in the field of Environmental Management and Technology especially for tropical countries and its mission is to contribute in development of Environmental Engineering and Management through highly qualified and innovative education systems, distinction research, and intensified community services. This research group responds appropriately to global and local challenges in the field of environmental management and technology based on the available resources found in tropical countries.

In this program, you will gain a thorough understanding of the important issues needed by those responsible for environmental performance. The course combines technical environmental engineering fundamentals with management based subjects such as environmental law, regulation, economics, impact assessment, reporting and sustainable development. There is a broad range of specialist units, meaning that you can tailor the course to your particular career aspirations or interests and learn in depth about subjects of particular relevance to you.

Training Objectives:

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

- ✓ Define and understand the overview of Environmental Management Technology and technologies for sustainable products
- ✓ Carryout techniques of energy surveying and auditing as well determining technologies for Sustainable Manufacture
- ✓ Explain the benefits of sustainable design and methods used in buildings
- ✓ Apply waste management and recycling methods
- ✓ Identify renewable energy sources, industrial water and wastewater management

Training Designed for:

This course is intended for all Scientists, Engineer or Environmental Manager who either has an academic background in process engineering or has relevant practical experience of working in an environmental engineering role in the industry.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction
- ❖ Environmental Management
 - This module is considered core to the Environmental Management and Technology CPS, providing the basic knowledge and an understanding of environmental issues, legislation and the standards and approaches relating to environmental management



❖ **Technologies for Sustainable Products**

- Environmental legislation has had a significant impact on manufacturing awareness. Product designers need to be aware of techniques and technologies to support a reduction in the environmental impact

DAY TWO:

❖ **Energy Surveying and Auditing**

- The module provides an introduction to the energy auditing aspects of energy management. It covers the basic principles and practical aspects of undertaking industrial energy audits

❖ **Technologies for Sustainable Manufacture**

- Environmental legislation has had a significant impact on manufacturing awareness from waste minimization to efficient use of technologies
- The aim is to improve the awareness of organizations of environmental issues increasingly affecting manufacturing

DAY THREE:

❖ **Sustainable Use of Buildings**

- The aim of this module is to explore where the major environmental impacts associated with buildings occur and to explain the benefits of incorporating a sustainable design approach to buildings
- It will investigate the use of sustainable methods in existing and new buildings and determine the reduction in environmental impacts and possible financial savings to enable the students to put together a design brief for a case study with sketches

❖ **Waste Management and Recycling**

- The module focuses on the framework for waste recycling, including the science and technology, the economics, legislative and the social and cultural aspects
- Recycling systems including the technology, materials flow and the financial flows are also explored

DAY FOUR:

❖ **Renewable Energy Sources**

- The module provides a general introduction to the range of available renewable energy technologies
- It discusses the advantages and disadvantages of these technologies compared to conventional fossil fuel derived energy

DAY FIVE:

❖ **Industrial Water and Wastewater Management**

- The aim of this module is to extend the understanding of the importance of managing water systems within an industrial/commercial environment and to explain how to evaluate water use and wastewater production and develop a management strategy
- The CPS Project provides an opportunity to develop a range of project associated skills and to integrate work over a number of different areas and so reinforce the interdisciplinary nature of real engineering problems and solutions

❖ **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:

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Training & Career Development Department