Training Plan

2025

Renewable Environment Company for Environmental Consulting

Scientific Environmental Services Co. (SENS)

SCIENTIFIC ENVIRONMENTAL SERVICES

1 Environmental Programs

Code	Program Name	Duration	Begin date	Place
ENV1	Environmental Impacts Assessment تقييم الأثر البيئى	3 days	05-01-2025	Sharm - Jeddah - Hurghada
ENV2	Environmental Risk Assessment تقييم المخاطر البيئية	3 days	06-02-2025	Sharm –Ismailia Hurghada
ENV3	Environmental General Awareness التوعية البيئية العامة	5 days	05-03-2025	Sharm –Ismailia - Jeddah
ENV4	Ecotourism السياحة البيئية	3 days	05-05-2025	Sharm - Jeddah - Hurghada
ENV5	Environmental Education التعليم البيئى	3 days	05-07-2025	Sharm - Jeddah - Hurghada
ENV6	Climate Change تغير المناخ	5 days	05-07-2025	Sharm - Jeddah - Hurghada
ENV7	Ecosystem Services خدمات النظام البيئى	3 days	05-11-2025	Sharm - Jeddah - Hurghada

2 Marine Programs

Code	Program Name	Duration	Begin date	Place
MAR1	Marine Endangered Species الأنواع البحرية المهددة بالإنقراض	3 days	05-01-2025	Sharm - Jeddah - Hurghada
MAR2	Marine Protected Area المحميات الطبيعية البحرية	3 days	06-02-2025	Sharm –Ismailia Hurghada
MAR3	Coral Reef Communities بيئات الشعاب المرجانية	5 days	05-03-2025	Sharm –Ismailia - Jeddah
MAR4	Marine Ecotourism السياحة البيئية البحرية	3 days	05-05-2025	Sharm - Jeddah - Hurghada
MAR5	Environmental Impacts Assessment تقييم الأثر البيئى	5 days	05-07-2025	Sharm - Jeddah - Hurghada
MAR6	Marine Environment of the Red Sea البيئة البحرية للبحر الأحمر	5 days	05-07-2025	Sharm - Jeddah - Hurghada
MAR7	Marine Ecosystems النظم البيئية البحرية	5 days	05-11-2025	Sharm - Jeddah - Hurghada
MAR8	Coastal Zone Management الإدارة المتكاملة للمناطق الساحلية	5 days	05-01-2025	Sharm - Jeddah - Hurghada
MAR9	Sea Water Desalination تحليلة مياه البحر	5 days	06-02-2025	Sharm –Ismailia Hurghada
MAR 10	Marine Pollution التلوث البحرى	5 days	05-03-2025	Sharm –Ismailia - Jeddah

3 Marine Aquaculture

Code	Program Name	Duration	Begin date	Place
MAQ1	Fish Nutrition تغذية الأسماك	3 days	05-01-2025	Sharm - Jeddah - Hurghada
MAQ2	Fish Farms & Aquaculture لإستزراع المزارع السمكية	3 days	06-02-2025	Sharm –Ismailia Hurghada
MAQ3	Fisheries Management إدارة المصايد	3 days	05-03-2025	Sharm –Ismailia - Jeddah

4 Waste Management Programs

Code	Program Name	Duration	Begin date	Place
WM1	Solid Waste Management إدارة المخلفات الصلبة	3 days	05-01-2025	Sharm - Jeddah - Hurghada
WM2	Hazardous Waste Management إدارة المخلفات الخطرة	3 days	06-02-2025	Sharm –Ismailia Hurghada
WM3	Municipal Landfills نظام المدافن الصحية	5 days	05-03-2025	Sharm –Ismailia - Jeddah
WM4	Biogas البيوجاز (الغاز الحيوى)	3 days	05-05-2025	Sharm - Jeddah - Hurghada
WM5	Recycling of Waste إعادة تدوير المخلفات	5 days	05-07-2025	Sharm - Jeddah - Hurghada
WM6	Health & Safety in Waste Management and Recycling الصحة والسلامة لعملية إدارة المخلفات وإعادة التدوير	5 days	05-01-2025	Sharm - Jeddah - Hurghada
WM7	Waste Water Management الإدارة البيئية للمخلفات المائية	3 days	06-02-2025	Sharm –Ismailia Hurghada
WM8	Sewage Management الإدارة البيئية للمجارى	3 days	05-03-2025	Sharm –Ismailia - Jeddah
WM9	Industrial Waste Management الإدارة البيئية للمخلفات الصناعية	3 days	05-05-2025	Sharm - Jeddah - Hurghada
WM10	Medical Waste Management الإدارة البيئية للمخلفات الطبية	3 days	05-07-2025	Sharm - Jeddah - Hurghada

5 Carbon Footprint Programs

Code	Program Name	Duration	Begin date	Place
CF1	Introduction to Carbon Footprint and Climate Change مقدمه عن البصمه الكربونيه والتغير المناخى	3 days	05-01-2025	Sharm - Jeddah - Hurghada
CF2	Carbon Footprint Calculation and Reporting حساب البصمة الكربونية واعداد التقارير	5 days	06-02-2025	Sharm –Ismailia Hurghada
CF3	Carbon Footprint Management and Carbon Neutrality اداره البصمه الكربونيه والحياد الكربونى	4 days	05-03-2025	Sharm –Ismailia - Jeddah
CF4	Carbon Footprint Management and Climate Neutrality البصمة الكربونية والحياد المناخي إدارة	4 days	05-05-2025	Sharm - Jeddah - Hurghada

6 Training Team

RECEC Training Team Key Personnel			
No		**Name**	**Roles**
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SENS Training Team Key Personnel			
No		**Name**	**Roles**
1		Dr. Magdy El-Alwany	Director of SENS
2		Dr. Wafa Sallam	Training coordinator
3		Dr. Naglaa Loutfy	Environmental chemist
4		Dr. Mohamed Selim	Marine Oceanography Specialist
5		Dr. Diaa Abdel-Rahman	Meiofauna Specialist
6		Dr. Saad Zakaria	Aquaculture
7		Dr. Tarek S. Awad	GIS Specialist
8		Dr. Mohamed Abo-Regal	Fish Larvae Specialist
9		Mrs. Aya Said	P Specialist

GENERAL:	
Course Title	**Environmental Impacts Assessment**
Course Code	ENV1
Course Place	Dubai – Kuwait - Hurghada
Course Duration	3 days (12 training hours)
Speakers	Dr. Magdy Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course introduces the methodology of environmental impact assessment (EIA) as a vital tool for sound environmental decision-making. It provides an introduction to the concepts, methods, issues and various stages of the EIA process. The various stages of the EIA process, such as screening, scoping, EIA document preparation, public involvement, review and assessment, monitoring and auditing, appeal rights and decision-making are examined.
TARGET AUDIENCE:	
	• Environmental engineers and specialists • HSE officer in any company • Anyone responsible for environmental activities at organization including planning and assessment
COURSE TOPICS:	
	• History and Key Features of Environmental Assessment • The Role of the Public in Environmental Assessment • Case Study: Environmental Assessment of the Project • The Prospects for Advancement of EIA
COURSE OUTCOME:	
	• Explain the major principles of EIA. • Understand the different steps within EIA. • Understand how to liaise with and the importance of stakeholders in the EIA process. • Be able to access different case studies of EIA in practice.

GENERAL:		
	Course Title	**Public Environmental Awareness**
	Course Code	ENV2
	Course Place	Dubai – Kuwait - Hurghada
	Course Duration	3 days (12 training hours)
	Speakers	Dr. M. Alwany & Dr. Wafaa Sallam
	Course Price	American Dollars/person
DESCRPTION:		
	Overview	Public environmental awareness advocates the preservation, restoration and/or improvement of the natural environment, and may be referred to as a movement to control pollution or protect plant and animal diversity For this reason, concepts such as a land ethic, environmental ethics, biodiversity, ecology and the biophilia hypothesis figure predominantly.
TARGET AUDIENCE:		
	•	Environmental engineers and specialists
	•	HSE engineers.
	•	Anyone responsible for environmental activities at organization.
COURSE TOPICS:		
	•	Reorienting current education and awareness programs to include environmental dimensions;
	•	Basic education and awareness programs (e.g., in schools);
	•	Adult and community education and awareness programs;
	•	Education, training, and awareness programs for professional,
	•	Role the print, broadcast, and Internet media
	•	Different environmental legislations
COURSE OUTCOME:		
	•	Demonstrate knowledge of public awareness benefits.
	•	Understand the use of different techniques of public environmental awareness.
	•	Develop team-based skills in scientific research.
	•	Demonstrate scientific communication skills.

GENERAL:		
	Course Title	**Integrated Coastal Zone Management**
	Course Code	ENV3
	Course Place	Dubai – Kuwait - Hurghada
	Course Duration	3 days (12 training hours)
	Speakers	Dr. Magdy Alwany
	Course Price	American Dollars/person
DESCRPTION:		
	Overview	Integrated coastal zone management (ICZM) or Integrated coastal management (ICM) is a process for the management of the coast using an integrated approach, regarding all aspects of the coastal zone, including geographical and political boundaries, in an attempt to achieve sustainability.
TARGET AUDIENCE:		
	•	Environmental specialists
	•	Landscape and planning engineers
	•	Anyone responsible for coastal and environmental activities at organization.
COURSE TOPICS:		
	•	Introduction on Integrated coastal zone management (ICZM).
	•	The coastal zone and the concept of sustainability.
	•	The importance of the Coastal Zone.
	•	Integrated coastal zone management (ICZM) Framework
	•	Participation and cooperation of all stakeholders.
	•	Integration between land and water elements of the coastal zone.
	•	ICZM: some Arabian country as case study.
COURSE OUTCOME:		
	•	Demonstrate knowledge of Integrated coastal zone management benefits.
	•	Understand the use of different techniques of Integrated coastal zone management.
	•	Develop team-based skills in scientific research.
	•	Demonstrate scientific communication skills.

GENERAL:		
	Course Title	**Environmental Education**
	Course Code	ENV4
	Course Place	Dubai – Kuwait - Hurghada
	Course Duration	3 days (12 training hours)
	Speakers	Dr. Magdy Alwany
	Course Price	American Dollars/person
DESCRPTION:		
	Overview	Environmental education (EE) refers to organized efforts to teach about how natural environments function and, particularly, how human beings can manage their behavior and ecosystems in order to live sustainably. The term is often used to imply education within the school system, from primary to post-secondary. However, it is sometimes used more broadly to include all efforts to educate the public and other audiences, including print materials, websites, media campaigns, etc. Related disciplines include outdoor education and experiential education.
TARGET AUDIENCE:		
	•	Environmental specialists
	•	HSE officer in any company
	•	Anyone responsible for environmental activities.
COURSE TOPICS:		
	•	Awareness and sensitivity to the environment.
	•	Knowledge and understanding of the environment and environmental challenges.
	•	Attitudes of concern for the environment and motivation to improve or maintain environmental quality.
	•	Participation in activities that lead to the resolution of environmental challenges.
COURSE OUTCOME:		
	•	Explain the major principles of environmental education.
	•	Understand the different steps environmental education.
	•	Understand how to manage plan of environmental education.
	•	Be able to access different case studies of EE in practice.

GENERAL:	
Course Title	**Marine Endangered Species**
Course Code	MAR1
Course Place	Dubai – Kuwait - Hurghada
Course Duration	4 days (16 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	Endangered species also serve as "sentinel" species to indicate larger ecological problems that could affect the functioning of the ecosystem and likely humans as well. As importantly, species diversity is part of the natural legacy we leave for future generations. The wide variety of species on land and in our oceans has provided inspiration, beauty, solace, food, livelihood, medicines and other products for previous generations.
TARGET AUDIENCE:	
	• Marine environmental engineers and specialists • Anyone responsible for marine environmental activities at organization
COURSE TOPICS:	
	• Importance of marine endangered species. • Sea turtles, marine mammals and sea birds. • IUCN Red List of marine endangered species. • The conservation of marine endangered species. • International, regional and local cooperation's for MES.
COURSE OUTCOME:	
	• Raise the awareness of marine endangered species. • To help in conservation of marine endangered species. • Develop team-based skills in scientific research, including management. • Demonstrate scientific communication skills.

GENERAL:	
Course Title	**Marine Protected Areas (MPAs)**
Course Code	MAR2
Course Place	Dubai – Kuwait - Hurghada
Course Duration	3 days (12 training hours)
Speakers	Dr. Magdy Alwany & Dr. Ahmed Shawky
Course Price	American Dollars/person
DESCRPTION:	
Overview	It has been determined marine and coastal protected areas have been established or proposed in the Arabian Region. Of these, it is estimated that approximately 80% are inadequately managed or lack management entirely. We recognise that training of trainers is the key to ensuring that a corps of skilled persons is available for the management of MPAs. The modules have been developed by specialists from the region incorporating regional experiences and are an important resource for establishing a core of trainers who can address the MPA training needs of the Arabian Region.
TARGET AUDIENCE:	
	• Environmental engineers and specialists. • Ranger of Marine protected Areas. • Anyone responsible for environmental activities.
COURSE TOPICS:	
	• Introduces the principles of marine protected areas (MPA). • Provides a historical overview of MPA programs. • Development of MPA network in marine and coastal areas. • Uses and threats to marine resources. • Rationale and guidelines for MPA planning
COURSE OUTCOME:	
	• Applied the basic principles of management. • Training of Trainers in Marine Protected Areas Management. • Training on manual contains some modules, covering the range of issues most pertinent to MPA management. • Identifies the uses and threats to marine resources. • Provides the rationale and guidelines for MPA planning

GENERAL:	
Course Title	**Coral Reef Communities**
Course Code	MAR3
Course Place	Dubai – Kuwait - Hurghada
Course Duration	5 days (20 training hours)
Speakers	Dr. M. Alwany,
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course is designed to provide the trainer with a sound foundation in ecological concepts and field techniques as applied to coral reef ecosystems. The material covered is equivalent to a university upper level course in coral reef field ecology. The course will begin with a global ecosystem perspective and then will progressively narrow to assess the way in which local reefs are influenced by both global and local phenomena. We will briefly survey reef systems in various parts of the world and focus on Arabian reefs.
TARGET AUDIENCE:	
•	Marine specialists
•	Anyone responsible for marine environmental activities.
COURSE TOPICS:	
•	Fundamentals of oceanography and marine ecology.
•	Reef morphology, distribution of reef systems.
•	Coral reef community study – sampling methods
•	Biology of coral reef organisms.
•	Ecology of coral reef organisms.
•	The coral reef as ecosystem: How are reefs organized?
•	Stability & resilience; are these concepts relevant to reefs?
COURSE OUTCOME:	
•	To examine several theories of the origins of reefs and discuss some controversial formulation of community structure in reef organization, diversity/stability relationships.
•	To develop an awareness of the objectives of research
•	To provide a background for the field work in an interactive discussion format.

GENERAL:	
Course Title	**Marine Ecotourism**
Course Code	MAR4
Course Place	Dubai – Kuwait - Hurghada
Course Duration	2 days (8 training hours)
Speakers	Dr. Magdy Alwany & Dr. Islam El-Gamal
Course Price	American Dollars/person
DESCRPTION:	
Overview	Ecotourism is reputed to attract high-spending tourists and estimates suggest it to be worth (10-17.5 US$ billion) worldwide. Specifically, the course will contain the following: Marine Safety and Survival; Marine Ecology; Marine Eco-Tourism; Marine Recreation; Arabian History and Culture including a research project, and Professional Studies.
TARGET AUDIENCE:	
•	Marine environment's and specialists
•	Fishermen, student and tourist sector
•	Anyone responsible for coastal environmental activities.
COURSE TOPICS:	
•	The basic principles of marine ecotourism.
•	Marine ecotourism in marine and coastal areas.
•	Marine ecotourism and concept of sustainability.
•	Role of local people in marine ecotourism.
•	The natural environment, managed so as to be ecologically sustainable.
COURSE OUTCOME:	
•	To raise awareness about the fragile and interdependent nature of its resource base.
•	Have a strong overall knowledge of marine environment, its ecology, conservation and cultural significance;
•	Develop personal leadership and organisational skills in a broad range of marine and maritime activities;
•	Have a knowledge and practice of safety and survival in a coastal marine environment along Arabian coasts.
•	Marine ecotourism contribute in spread sustainability concept in the coastal areas.

GENERAL:	
Course Title	**Marine Environment of the Arabian Gulf**
Course Code	MAR5
Course Place	Dubai – Kuwait - Hurghada
Course Duration	3 days (12 training hours)
Speakers	Dr. Magdy Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	The Arabian Gulf ecosystem is nowadays facing a variety of stresses due to its location within the richest oil province in the world that hosts more than 67% of the world oil reserve. This course discusses the types of marine environment in association with the nature of the originating sources besides their expected impacts upon the ecosystem.
TARGET AUDIENCE:	
	• Environmental engineers and specialists • Companies worked in marine coastal areas. • Anyone responsible for marine environmental activities.
COURSE TOPICS:	
	• General introduction on the Arabian Gulf. • Physical and chemical characteristics of the Arabian Gulf. • Marine communities in the Arabian Gulf. • Marine biodiversity and threats in the Arabian Gulf. • Overview of marine pollution and contamination in different areas of the Arabian Gulf. • Marine protected areas in the Arabian Gulf. • Marine environmental problems in the Arabian Gulf.
COURSE OUTCOME:	
	• Identify the physical and chemical characteristics of the Arabian Gulf. • Develop personal leadership and organisational skills in a broad range of marine activities. • Have knowledge of coastal marine environment and ecosystems along Arabian coasts. • Identify and discuss the marine environmental problems of the Arabian Gulf.

GENERAL:	
Course Title	**Marine Pollution in the Arabian Gulf**
Course Code	MAR6
Course Place	Dubai – Kuwait - Hurghada
Course Duration	3 days (12 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	The Arabian Gulf ecosystem is nowadays facing a variety of stresses due to its location within the richest oil province in the world. Many anthropogenic coastal and offshore activities pose major contamination and marine pollution in the Gulf that need critical investigation and assessment. This course discusses the types of marine pollution in association with the nature of the originating sources besides their expected impacts upon the ecosystem.
TARGET AUDIENCE:	
	• Environmental engineers and specialists • Companies worked in marine coastal areas. • Anyone responsible for marine environmental activities.
COURSE TOPICS:	
	• Introduction on marine pollution in the Arabian Gulf. • Types of marine pollution in the Arabian Gulf. • Conditions of each type of marine pollution prevailing in the Arabian Gulf. • Various types of major pollutants in marine water depend on the coastal activities. • Different kind of coastal industrial activities
COURSE OUTCOME:	
	• Develop personal leadership and organisational skills in a broad range of marine industrial activities. • Have a knowledge and practice of types of pollution in a coastal marine environment along Arabian coasts. • Develop protection skills in a broad range of marine industrial activities. • Demonstrate scientific communication skills.

GENERAL:	
Course Title	**Marine Ecology**
Course Code	MAR7
Course Place	Dubai – Kuwait - Hurghada
Course Duration	3 days (12 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course will provide an understanding of the patterns of abundance and diversity of marine plants and animals and the processes that structure these patterns. The habitats and organisms used to illustrate lectures are derived from ecological studies of subtidal rocky and coral reefs, intertidal rocky reefs, mangrove forests, salt marshes, seagrass meadows, urban structures and pelagic habitats.
TARGET AUDIENCE:	
	• Environmental engineers and specialists • Students of marine biology • Anyone responsible for environmental activities
COURSE TOPICS:	
	• Introduction of marine ecology • Ecology of different marine ecosystems • Methods using in marine ecological survey • Solutions to environmental and conservation problems in coastal habitats
COURSE OUTCOME:	
	• Demonstrate an understanding of logical observations and hypotheses that shape research questions and the range of different approaches • Demonstrate knowledge of a range of marine organisms, from microbes to plants to animals, and the techniques • Understand the use of different sampling techniques • Develop team-based skills in scientific research, including management of projects • Demonstrate scientific communication skills in both written and oral form, including the conventions in technical.

GENERAL:	
Course Title	**Marine Ecosystems**
Course Code	MAR8
Course Place	Dubai – Kuwait - Hurghada
Course Duration	3 days (12 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	Different areas of the ocean can be classified as different types of marine ecosystems. An ecosystem is defined as "a community and the interactions of living and nonliving things in an area." Marine ecosystems have distinct organisms and characteristics that result from the unique combination of physical factors that create them.
TARGET AUDIENCE:	
	• Marine environmental specialists • Students of marine biology • Anyone responsible for marine environmental activities
COURSE TOPICS:	
	• Introduction of marine ecosystems • Ecology of different marine ecosystems • Coral reef ecosystems. • Mangrove ecosystems • Seagrasses ecosystems • Marine and coastal ecosystems. • Integrated of all marine and coastal ecosystems.
COURSE OUTCOME:	
	• Demonstrate an understanding of marine and coastal ecosystems. • Demonstrate knowledge of a range of marine organisms in different ecosystems. • Understand the use of different sampling techniques • Develop team-based skills in scientific research. • Demonstrate scientific communication skills.

GENERAL:	
Course Title	**Resilience of Coral Reef Ecosystem**
Course Code	MAR9
Course Place	Dubai – Kuwait - Hurghada
Course Duration	3 days (12 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	The resilience of coral reefs is the biological ability of coral reefs to recover from natural disturbances such as storms and bleaching episodes. Resilience refers to the ability of biological or social systems to overcome pressures and stresses by maintaining key functions through resisting or adapting to change. Natural reef resilience can be used as a recovery model for coral reefs and an opportunity for management in marine protected areas (MPAs).
TARGET AUDIENCE:	
	• Marine environmental specialists • Students and divers of marine areas • Anyone responsible for marine environmental activities.
COURSE TOPICS:	
	• Introduction of Resilience concept • Use the resilience indicators in marine life • Resilience Coral reef ecosystems. • Role of herbivores in coral resilience • Role of bioeroder in coral resilience • Role of bleaching in coral resilience • Important role of coral reef fishes in coral resilience in the Arabian Gulf.
COURSE OUTCOME:	
	• Demonstrate an understanding of resilience concept. • Demonstrate knowledge of resilience in marine ecosystems. • Understand the use of different techniques in coral resilience in the Arabian Gulf. • Develop team-based skills in scientific research. • Demonstrate scientific communication skills.

GENERAL:	
Course Title	**Artificial Feeding of Fishes and Shrimps**
Course Code	MAQ1
Course Place	Dubai – Kuwait - Hurghada
Course Duration	5 days (20 training hours)
Speakers	Dr. M. Alwany & Dr. Deyaaeddin Abdlrahman
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course is concerned with the nutritional requirements of fishes and shrimps from different groups of feeding habits. This course will cover the type of artificial feeding and principles of manufacturing of the artificial diets.
TARGET AUDIENCE:	
	• Farmers and aquaculture interests • Researchers and marine aquaculture consultants. • Anyone responsible for marine aquaculture activities.
COURSE TOPICS:	
	• The nutritional requirements of different groups of fishes and shrimps. • Principles of manufacturing of artificial diets. • Types of artificial diets. • Sources of artificial diets.
COURSE OUTCOME:	
	• Understanding the principles of artificial feeding of fishes and shrimps. • Formulating the artificial feed of fishes and shrimps. • Using the alternative sources of foods in artificial feeding. • Demonstrate scientific communication skills.

GENERAL:	
Course Title	**Farming Fishes in Cages**
Course Code	MAQ2
Course Place	Dubai – Kuwait - Hurghada
Course Duration	5 days (20 training hours)
Speakers	Dr. M. Alwany & Dr. Deyaaeddin Abdlrahman
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course is concerned with definition of farming in cages of fishes in cages. Aquaculture in Cages was the most applicable for intensive farming with ease management. This course will cover the principles of farming in this type in terms of its site selection bases and design and its managements.
TARGET AUDIENCE:	
	• Farmers and aquaculture interests • Researchers and marine aquaculture consultants. • Anyone responsible for marine aquaculture activities.
COURSE TOPICS:	
	• Principles of farming in cages: Site selection and species selection. • Design and construction of cages. • Site Selection and Placement of Cages • Management of farming in cages. • Raising fish in cages is a successful system • Financial investment in cages system
COURSE OUTCOME:	
	• Solve engineering issues in this system for aquaculture practices. • Demonstrate a sound understanding of farming in cages in Rivers and Sea. • Develop team-based skills in scientific research. • Demonstrate scientific communication skills.

GENERAL:	
Course Title	**Water Quality Management of Farm Ponds**
Course Code	MAQ3
Course Place	Dubai – Kuwait - Hurghada
Course Duration	5 days (20 training hours)
Speakers	Dr. M. Alwany & Dr. Deyaaeddin Abdlrahman
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course is concerned with definition of water quality parameters that could be monitored in the farmed ponds. This course will cover the management practices of water quality parameters in farmed ponds.
TARGET AUDIENCE:	
	• Farmers and aquaculture interests • Researchers and marine aquaculture consultants. • Anyone responsible for marine aquaculture activities.
COURSE TOPICS:	
	• Water quality parameters in fish ponds. • Monitoring of water quality parameters. • Managements of water quality parameter • Pond Construction, Maintenance and Ecology • Interaction between water quality parameter in fish ponds and cages. • Farm Pond Safety
COURSE OUTCOME:	
	• Demonstrate knowledge of monitoring of water quality parameters benefits. • Understand the use of different techniques of monitoring of water quality parameters. • Employ scientific techniques, practical skills and business management strategies to improve the water quality properties in fish ponds. • Demonstrate scientific communication skills.

GENERAL:	
Course Title	**Solid Waste Management**
Course Code	WM1
Course Place	Sharm
Course Duration	3 days (12 training hours)
Speakers	Dr. M. Alwany & Dr. Deyaaeddin Abdlrahman
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course introduces modern practices in solid waste management with a focus on sustainable waste handling, reduction, and recycling techniques. Participants will gain knowledge on the circular economy model, sustainable waste systems, and the transition from landfill disposal to resource recovery approaches.
TARGET AUDIENCE:	
	• Environmental and waste management specialists • Municipal and industrial facility operators • Sustainability and HSE officers • Consultants working on waste minimization projects
COURSE TOPICS:	
	• Principles of integrated solid waste management • Waste hierarchy and circular economy concepts • Collection, transport, and segregation systems • Material recovery and recycling technologies • Waste-to-energy and composting applications • Policies, regulations, and sustainability frameworks
COURSE OUTCOME:	
	• Understand key components of integrated waste management systems • Apply circular economy principles in waste reduction • Evaluate modern recycling and waste-to-energy technologies • Develop practical approaches for sustainable waste management plans

GENERAL:	
Course Title	**Hazardous Waste Management**
Course Code	WM2
Course Place	Sharm-Hurghada
Course Duration	5 days (20 training hours)
Speakers	Dr. M. Alwany & Dr. Deyaaeddin Abdlrahman
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course provides comprehensive training on the safe handling, treatment, and disposal of hazardous waste in compliance with international and local environmental standards. Participants will explore risk assessment, lifecycle tracking, and emergency response procedures related to hazardous materials.
TARGET AUDIENCE:	
	• Environmental managers and industrial safety officers • Government regulators and inspection authorities • Consultants and auditors in waste and risk management • Personnel working in hazardous waste generation or transport
COURSE TOPICS:	
	• Definition, classification, and identification of hazardous waste • Regulatory frameworks and Basel Convention overview • Waste tracking, storage, and transportation requirements • Treatment, disposal, and recycling of hazardous materials • Emergency preparedness and spill response management • Environmental and occupational health protection standards
COURSE OUTCOME:	
	• Identify and classify hazardous waste types and sources • Ensure compliance with international hazardous waste standards • Apply best practices for waste handling, storage, and treatment • Develop risk-based management strategies and emergency plans

GENERAL:	
Course Title	**Municipal Landfills**
Course Code	WM3
Course Place	Sharm
Course Duration	4 days (16 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course covers the planning, design, operation, and monitoring of modern sanitary landfills with a focus on environmental protection and resource recovery. It integrates the latest approaches to landfill management, including leachate and gas control, landfill mining, and post-closure use planning.
TARGET AUDIENCE:	
	• Municipal engineers and planners • Environmental specialists and consultants • Waste facility operators and supervisors • Policy makers involved in waste management infrastructure
COURSE TOPICS:	
	• Landfill site selection and environmental impact assessment • Engineering design of sanitary landfills • Leachate and landfill gas management systems • Operational best practices and environmental monitoring • Landfill mining, rehabilitation, and post-closure management • Integrating landfills into sustainable waste management systems
COURSE OUTCOME:	
	• Design and evaluate sanitary landfill components and systems • Implement environmental protection measures for landfill sites • Manage landfill operations in compliance with best practices • Apply sustainability principles in landfill planning and closure

GENERAL:	
Course Title	**Biogas**
Course Code	WM4
Course Place	Sharm
Course Duration	3 days (12 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course explores biogas production as a renewable energy solution for organic waste management. It focuses on anaerobic digestion technology, biogas system design, feedstock management, and environmental benefits. Participants will learn how to integrate biogas projects within sustainable waste and energy systems.
TARGET AUDIENCE:	
	• Environmental engineers and renewable energy specialists • Waste management professionals • Sustainability project managers • Researchers in bioenergy and circular economy fields
COURSE TOPICS:	
	• · Principles of anaerobic digestion and biogas formation • Feedstock types and waste-to-energy conversion processes • Biogas plant design and operational safety • Utilization of biogas and digestate management • Environmental and economic benefits of biogas systems • Case studies of biogas applications in urban and rural contexts
COURSE OUTCOME:	
	• Understand the fundamentals of biogas technology • Assess the feasibility and benefits of biogas systems • Design and manage small to medium biogas projects • Integrate biogas solutions into circular waste management strategies

GENERAL:	
Course Title	**Recycling of Waste**
Course Code	WM5
Course Place	Sharm - Hurghada
Course Duration	4 days (16 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course focuses on modern recycling technologies, material recovery systems, and strategies to promote a circular economy. Participants will learn about sorting, processing, and reuse of waste materials, as well as business models that support sustainable recycling industries.
TARGET AUDIENCE:	
	• Environmental and industrial waste management professionals • · Municipal officers responsible for recycling programs • · Private sector recycling entrepreneurs • · Students and researchers in environmental sciences
COURSE TOPICS:	
	• Overview of recycling systems and material recovery processes • Recycling technologies for plastics, metals, glass, and paper • Innovative recycling approaches and waste valorization • Regulations and policies promoting circular economy • Public participation and awareness in recycling programs • Economic and environmental benefits of recycling initiatives
COURSE OUTCOME:	
	• Identify different recycling technologies and applications • Implement sustainable recycling systems in urban areas • Enhance public awareness and participation in recycling programs • Support the development of circular economy models through waste recycling

GENERAL:	
Course Title	**Introduction to Carbon Footprint and Climate Change**
Course Code	CF1
Course Place	Sharm
Course Duration	3 days (12 training hours)
Speakers	Dr. M. Alwany & Dr. Deyaaeddin Abdlrahman
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course provides a foundational understanding of the concepts of carbon footprint and climate change. It introduces the scientific basis of climate change, greenhouse gas (GHG) emissions, and the global efforts to mitigate their impacts.
TARGET AUDIENCE:	
	• Environmental engineers and specialists • Sustainability and HSE officers • Corporate social responsibility (CSR) teams • Anyone involved in environmental planning and management
COURSE TOPICS:	
	• Introduction to climate change and global warming • Greenhouse gases and sources of emissions • Understanding carbon footprint and its importance • International frameworks and agreements (UNFCCC, Paris Agreement) • Strategies for mitigation and adaptation
COURSE OUTCOME:	
	• Understand the link between human activities, GHG emissions, and climate change • Identify key concepts and terminology in carbon management • Gain awareness of global and local climate initiatives • Build the foundation for advanced carbon footprint assessment and reporting

GENERAL:	
Course Title	**Carbon Footprint Calculation and Reporting**
Course Code	CF2
Course Place	Sharm
Course Duration	5 days (20 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course introduces the methodologies used to calculate carbon footprints and prepare professional reports. Participants will learn about emission factors, scopes (1, 2, and 3), and the use of international standards such as ISO 14064 and the GHG Protocol. The course emphasizes practical exercises and examples of data collection, calculation, and reporting.
TARGET AUDIENCE:	
	• Environmental and sustainability specialists • Corporate environmental managers • Consultants and auditors in sustainability fields • Government and NGO professionals
COURSE TOPICS:	
	• Overview of GHG emission sources and categories • Calculation methods and emission factors • Data collection and quantification techniques • Reporting standards (ISO 14064, GHG Protocol) • Case studies of corporate carbon footprint reports
COURSE OUTCOME:	
	• Learn to quantify GHG emissions for organizations and projects • Apply international standards for reporting • Develop technical skills in emission data analysis • Prepare carbon footprint reports for internal and external use

GENERAL:	
Course Title	**Carbon Footprint Management and Carbon Neutrality**
Course Code	CF3
Course Place	Sharm
Course Duration	4 days (16 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This course focuses on strategies and tools for managing organizational carbon footprints and achieving carbon neutrality. It covers setting reduction targets, developing carbon management plans, and implementing offsetting mechanisms. Participants will explore case studies and learn how to integrate carbon neutrality into corporate sustainability strategies.
TARGET AUDIENCE:	
	• Environmental managers and sustainability officers • Corporate leaders and decision-makers • Environmental consultants and auditors • Professionals working on ESG and sustainability reporting
COURSE TOPICS:	
	• Carbon footprint management principles • Setting and tracking emission reduction targets • Carbon offsetting and credits • Corporate carbon neutrality strategies • Case studies of successful carbon neutral organizations
COURSE OUTCOME:	
	• Understand key components of carbon management systems • Develop and implement carbon reduction and offsetting plans • Integrate carbon neutrality within sustainability strategies • Communicate carbon performance effectively to stakeholders

GENERAL:	
Course Title	**Carbon Footprint Management and Climate Neutrality**
Course Code	CF4
Course Place	Sharm
Course Duration	4 days (16 training hours)
Speakers	Dr. M. Alwany
Course Price	American Dollars/person
DESCRPTION:	
Overview	This advanced course provides a comprehensive understanding of achieving climate neutrality through effective carbon management. It discusses how organizations can align their emission reduction initiatives with global climate goals, assess life-cycle emissions, and participate in carbon trading and offset mechanisms.
TARGET AUDIENCE:	
•	Senior sustainability managers and corporate strategists
•	· Environmental policy professionals
•	· Carbon auditors and consultants
•	· Environmental researchers and academics
COURSE TOPICS:	
•	The concept of climate neutrality and global frameworks
•	· Life cycle assessment (LCA) and carbon accounting
•	· Carbon markets and trading mechanisms
•	· Climate neutrality verification and certification
•	· Integrating climate neutrality into sustainability reporting
COURSE OUTCOME:	
•	Comprehend the relationship between carbon and climate neutrality
•	Apply advanced carbon management and LCA tools
•	Understand international standards and verification systems
•	Design and lead climate-neutrality programs in organizations