

Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE001- Crisis Management



Contact	Course objectives
<ul> <li>♀98765392</li> <li>♀24983523</li> <li>♀24983524</li> <li>♥ tpd.occd@eng.ku.edu.kw</li> </ul>	To introduce the crisis management concepts To overview the crisis management procedures Understand crisis management best practice Learn the roles and responsibilities of a crisis management team
Training course duration:	Course outline :
Three Days	<b>Day one topics:</b> Types of Crisis The characteristics of a major crisis
Timing:	Purpose of crisis management The principles of crisis management
<u>8 a.m 2 p.m. Daily</u>	Day two topics:
	Crisis Prevention Crisis Response and management Models and theories associated with crisis management Crisis Leadership



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE001- Crisis Management



# Day three topics: Crisis Management Team Roles and responsibilities of crisis management team Crisis Management Plan Contingency Planning **Day Four topics:** Crisis recognition and containment Crisis communication and media handling **Day Five topics:** Examples of successful crisis management Examples of unsuccessful crisis management Learning from experience **Instructor:** Dr. Anwar Al-Yaqout Dr. Naif Al-Mutairi **Civil Engineering** College of Engineering & petroleum Kuwait University

Fees:

<u>250 KD</u>



Kuwait University- College of Engineering <u>& Petroleum - Civil Engineering – OCT</u> CE002- Health, Safety and Environment (HSE)



Contact	Course objectives
<ul> <li>\$98765392</li> <li>\$24983523</li> <li>\$24983524</li> <li>&gt;\$tpd.occd@eng.ku.edu.kw</li> </ul>	Overview of Environmental Conservation Understand the principles of Health, Safety and Environment (HSE) Gain awareness about Occupational Health and Safety Develop awareness and responsibility towards Community health & Safety
Training course duration:	Course outline :
Three Days	Day one topics: Environmental Conservation Air Emissions and Ambient air quality
Timing:	Energy Conservation Wastewater and Ambient water quality
<u>8 a.m 2 p.m. Daily</u>	Water conservation
	Day two topics:
	Waste management Hazardous materials management Noise pollution Contaminated Land and Remediation Electronic waste
	Electronic Waste



Kuwait University- College of Engineering <u>& Petroleum - Civil Engineering – OCT</u> CE002- Health, Safety and Environment (HSE)



### Day three topics:

Introduction to Occupational Safety General Facility Design and Operation Communication and Training Physical Hazards Chemical Hazards Biological Hazards Radiological Hazards

#### **Day Four topics:**

Personal Protective Equipment Special Hazard Environments Monitoring Introduction to Community Health and Safety Water quality and availability

### Day Five topics:

Structural Safety and Project Infrastructure Life and Fire Safety Traffic Safety Transport of Hazardous Materials Decease Prevention Emergency Preparedness and Response

Fees: 250 KD

## **Instructor:**

Dr. Anwar Al-Yaqout Eng. Hany Amin Civil Engineering College of Engineering & petroleum Kuwait University



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE003- Kuwait Environmental Regulations



Contact	Course objectives
<b>\$</b> 98765392	
<b>L</b> 24983523	To give an overview of Kuwait EPA regulations To give information about EIA study reports
<b>\$</b> 24983524	To know about EPA responsibilities
	To gain knowledge of waste management as per EPA specifications
tpd.occd@eng.ku.edu.kw	
<b>T</b>	
Training course duration:	Course outline :
	Day one topics:
Three Days	The environmental impact of development projects - Assessment
	Articles dealing with preparation and submission of EIA study
Timing:	reports EIA study reports
<u>8 a.m 2 p.m. Daily</u>	The work environment and indoor environment
	Day two topics:
	Management of Household, Hazardous, Healthcare and sludge
	wastes
	Disposal of hazardous and dangerous wastes - consent from KEPA Hazardous waste transportation - KEPA Specifications
	Incinerators - KEPA Specifications



## Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE003- Kuwait Environmental Regulations



### Day three topics:

	Chemical Resource Management Classification of dangerous chemicals Requirements to be met for obtaining license for production, import and export of chemicals Requirements to be met for construction of warehouse for hazardous chemicals <b>Day Four topics:</b> Protection of Marine and Coastal Environments K-EPA norms for discharge of liquid effluents into the sea Drinking water and groundwater standards Responsibilities from environmental damage <b>Day Five topics:</b> Protection of earth crust from pollution Protection of ambient air from pollution Biodiversity Diversification General Provisions
Fees: 250 KD	Instructor: Dr. Anwar Al-Yaqout Dr. Naif Al-Mutairi Civil Engineering College of Engineering & petroleum Kuwait University



Kuwait University- College of Engineering & Petroleum – Civil Engineering – OCT CE004- Environmental Planning and Project Management



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Contact	Course objectives
<b>v</b> 98765392	Introduce environmental management systems
<b>\$</b> 24983523	Identify environmental policies and control measures
<b>\$</b> 24983524	Illustrate appropriate projects planning and management Present the techniques for environmental impact assessment
⊠ tpd.occd@eng.ku.edu.kw	
Training course	Course outline :
duration:	Day one topics:
Five Days	
U	* Environmental Management Systems Basic environmental concepts
Timing:	Management objectives and functions
8.	Environmental legislation and enforcement Environmental Policies and guidelines
<u>8 a.m 2 p.m. Daily</u>	Health, safety and Environment
	Day two topics:
	* Project planning and Scheduling
	Planning project activities
	Economic analysis and project financing
	Project control systems Day three topics:



## Kuwait University- College of Engineering <u>& Petroleum – Civil Engineering – OCT</u> CE004- Environmental Planning and Project Management



\* Environmental Impact Assessment Tools and techniques of impact assessment Measurement and prediction of impacts **Risk analysis** Physical and socio-economic impacts Case studies **Day Four topics:** \* Project Design Phase Selection of alternatives Clean technologies Mitigation measures Case studies **Day Five topics:** \* Project Construction and Operation Phase Management functions Monitoring of pollutants Environmental auditing Case studies **Instructor:** Dr. Anwar Al-Yagout Eng. Ehab Soliman **Civil Engineering** College of Engineering & petroleum Kuwait University

Fees:

<u>250 KD</u>



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Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE005- Fundamentals of Environment & Safety



Contact	Course objectives
	course objectives
<b>\$</b> 98765392	To give an overview of environmental protection issues
<b>\$</b> 24983523	To develop an understanding of environmental management
<b>L</b> 24983524	principles
=	To develop awareness about environmental safety principles
tpd.occd@eng.ku.edu.kw	
Training course	
duration:	Course outline :
	Day one topics:
Five Days	
	Environmental Processes
	Environmental Management Systems Environmental Risk Management and Assessment
Timing:	Emission Limits and Control
U	Emission Emits and Control
_	Day two topics:
-	Day two topics:
-	Day two topics: Safety Issues
<u>8 a.m 2 p.m. Daily</u>	<b>Day two topics:</b> Safety Issues Safety Techniques for Hazards and Effective Management
	<b>Day two topics:</b> Safety Issues Safety Techniques for Hazards and Effective Management Process Safety and Hazardous Control
	<b>Day two topics:</b> Safety Issues Safety Techniques for Hazards and Effective Management



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE005- Fundamentals of Environment & Safety



Environmental Monitoring and Data Management Site Assessment Management and Remediation

#### **Day Four topics:**

Emergency Planning Work Permits Work Environment Fire Safety Electrical safety

#### **Day Five topics:**

Environmental Protection Agencies Hazardous Wastes Management Emergency Procedures Waste Minimization

Fees: 250 KD

## **Instructor:**

Dr. Anwar Al-Yaqout Eng. Hany Amin Civil Engineering College of Engineering & petroleum Kuwait University



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE006- Modern and Special Concretes: Properties, Advantages and Uses



Contact	Course objectives
<b>\$</b> 98765392	The course chiestings include providing participants with an
<b>\$</b> 24983523	The course objectives include providing participants with an overview of types, advantages, disadvantages, properties, uses
<b>\$</b> 24983524	production and testing of different types of special concretes.
▼ tpd.occd@eng.ku.edu.kw	
Training course duration:	Course outline :
Fine Dave	Day one topics: - Introduction
Five Days	- Resin and Polymer concrete
a	<ul> <li>Epoxy and polyester resins</li> <li>Properties of PC</li> </ul>
Timing:	
<u>8 a.m 2 p.m. Daily</u>	Day two topics:
	<ul> <li>Latex modified concrete</li> <li>Fiber reinforced concrete</li> </ul>
	- Organic Fibers
	- Types and properties of fibers



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE006- Modern and Special Concretes: Properties, Advantages and Uses



#### Day three topics:

- Recycled concrete
- Self-compacted concrete
- Light weight concrete
- Heavy weight concrete

#### Day four topics:

- Sulpher concrete
- Ferrocement
- Shotcrete
- Roller compacted and no slump concrete

#### Day five topics:

- Mass concrete
- High strength and High performance concrete
- Other advanced concrete types
- Discussion

Fees:

<u>250 KD</u>

## **Instructor:**

Moetaz El-Hawary Abdullah Almutairi Civil Engineering College of Engineering & petroleum Kuwait University



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE007- Traffic Safety



Contact	Course objectives
<b>\$</b> 98765392	
<b>\$</b> 24983523	The aim of the course is to teach participants a scientific approach to and establish a system view of road safety. The course shall give a
<b>\$</b> 24983524	broad knowledge in "Road Safety Management".
ॺ tpd.occd@eng.ku.edu.kw	
Training course duration:	Course outline :
	Day one topics:
Two Days	Comprehend the road traffic system – Man, Machine and
	Environment, Accidents and their consequences, Factors influencing
Timing:	the number and severity of accidents, Behavioural issues, Conditions and needs of vulnerable road-users, children, elderly and disabled
<u>8 a.m 2 p.m. Daily</u>	road users, Evaluation of Road safety measures.
<b>~</b>	Day two topics:
	Be able to critically analyse Road safety policies, Organisational
	issues and Programmes for monitoring road safety. Have an elevated awareness on the importance of road safety issues
	for the welfare of the society.



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE007- Traffic Safety



Fees: 250 KD

## **Instructor:**

Prof. Sharaf AlKheder Civil Engineering College of Engineering & petroleum Kuwait University



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE008- Traffic Control



Contact	Course objectives
<b>\$</b> 98765392	De des secto Cales escares escalisiones en ll'escrito escare de secondario e d
<b>L</b> 24983523	By the end of the course, participants will gain an understanding of each step involved in providing traffic controls, identifying and
<b>\$</b> 24983524	applying workable concepts and techniques and better appreciate the principles in design and installation of traffic control devices.
▼ tpd.occd@eng.ku.edu.kw	the principles in design and installation of traine control devices.
Training course duration:	Course outline :
	Day one topics:
Two Days	Introduction to Code of Practice for Traffic Control
	Basic Signages and Their Use
Timing:	Basic Traffic Safety Devices and Their Use Manual Operated Stop/Go Sign Operating Procedures
<u>8 a.m 2 p.m. Daily</u>	Procedures in Laying of Traffic Signages and other safety devices
<u></u>	Day two topics:
	Steps in Developing a Good Traffic Control Plan
	Effective Implementation of Traffic Control Plan
	Legal Consequences of Action and Inaction Relative to Traffic Control



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE008- Traffic Control



Fees: 250 KD

## **Instructor:**

Prof. Sharaf AlKheder Civil Engineering College of Engineering & petroleum Kuwait University



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE009- Pavement Management System (PMS)



Contact	Course objectives
<ul> <li>98765392</li> <li>24983523</li> <li>24983524</li> <li>tpd.occd@eng.ku.edu.kw</li> </ul>	Understand the role of Pavement Management in Road Asset Management Review pavement deterioration mechanisms and root causes of road damages Learn about old and new road survey techniques and their outputs Appreciate the important role of daily maintenance in economic pavement management Understand the economic and other benefits of moving towards proactive maintenance
Training course duration:	Course outline :
	Day one topics:
Two Days Timing: <u>8 a.m 2 p.m. Daily</u>	describe the elements included in project and network-level pavement management process: define the difference between project and network-level pavement management processes and explain the reasons for the division and the interface required between them; explain how to determine, what data to collect, and the methods available for collecting it at both project and network-level;
	Day two topics:
	explain how to define the condition of a pavement, the advantages and disadvantages of different collection methods, and how to decide which condition data and collection methods should be used



Fees:

250 KD

Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE009- Pavement Management System (PMS)



for a given agency; describe different techniques to evaluating structural capacity of pavement systems; explain different approaches to analyzing Falling Weight Deflectometer deflections; design overlays using the AASHTO overlay design method; Day three topics: describe different approaches to analyzing data at project and network levels and discuss the advantages and disadvantages of each; describe typical problems encountered in implementing pavement management processes and approaches which can be used to overcome them; describe the elements included in pavement preservation; select appropriate timing and pavement preservation strategy based on existing pavement conditions; describe different treatment techniques for routine maintenance, preventive maintenance, and minor rehabilitation. **Instructor:** Prof. Sharaf AlKheder **Civil Engineering** College of Engineering & petroleum Kuwait University



Kuwait University- College of Engineering & Petroleum - Civil Engineering – OCT CE010- Design of Sustainable/Resilient Pavement System for Arid Weather of Kuwait



Contact	Course objectives
<ul> <li>▶ 98765392</li> <li>▶ 24983523</li> <li>▶ 24983524</li> <li>▶ tpd.occd@eng.ku.edu.kw</li> </ul>	This 3-day course provides guidance for design of pavements and supporting materials for roads, runways, parking, and open storage areas with emphasis on complying with the sustainability and resilient specifications.
Training course	
duration:	Course outline :
Two Days	Day one topics:
	<ul> <li>Have a better understanding of the characteristics of the flexible and rigid pavements;</li> </ul>
Timing:	• Be familiar with the criteria for the design of pavements and supporting materials.
<u>8 a.m 2 p.m. Daily</u>	<ul> <li>Character, magnitude and rate of change of climate and extreme weather events that should be considered in pavement design</li> </ul>
	Day two topics:
	<ul> <li>Advancement into design of resilient and sustainable infrastructure</li> <li>Design which takes into account climate change and extreme weather events</li> <li>Practical and affordable pavement design for climate adaptation</li> </ul>
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OFFICE OF CONSULTATION & TRAINING College of Engineering and Petroleum	Kuwait University- College of Engineering <u>&amp; Petroleum - Civil Engineering – OCT</u> CE010- Design of Sustainable/Resilient Pavement System for Arid Weather of Kuwait	רומסיין געשיער געשיער איז געשיער געשיער געשיער
	Day three topics:	
	<ul> <li>Effect of additional loading on pavemment perfromance</li> <li>New development in pavement design</li> <li>Softwar used in pavement design and sustainability</li> </ul>	
Fees:	Instructor:	
<u>250 KD</u>	Prof. Sharaf AlKheder Civil Engineering College of Engineering & petroleum Kuwait University	