

In-House Training Programs Plan

2023/2024

Human Resources Division
Manpower Development Department

Prepared by:

Ms. Razan Ismail

Ms. Shahad Al-Jazzaf

Ms. Dana Karam



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Introduction

Kuwait Institute for Scientific Research (KISR) is aware of the importance and effectiveness of the training programs on developing job performance and efficiency, which contributes to the society development by providing up-to-date information in all vital areas.

This booklet provides information on the in-house training courses approved for the year (2023/2024) in scientific, technical, computer and managerial areas.

These courses have been selected and reviewed to ensure that they meet stated objectives and functional needs, which will be conducted and delivered by highly qualified experts from the Kuwait Institute for Scientific Research (KISR), Kuwait and other countries.

We hope that the training programs plan for the year (2023/2024) will be integrated and comprehensive, and we aim that this booklet will assist you in choosing the most appropriate training courses to achieve the desired individual and societal goals.

October

no.	Course	Date
1	Creating KISR Reports using KISR's New Guidelines	2–4 October 2023
2	Meteorological Stations, Sensors, Data Retrieval and Analysis	8–12 October 2023
3	Experimental Methods for Engineers	15–19 October 2023
4	Introduction to Animal Ethics Committee	17–19 October 2023
5	Interpersonal Skills	26 October 2023

November

6	Masonry Units: Specifications, Quality Testing Methods and Procedures	5–9 November 2023
7	Sustainable Soil and Farm Management Practices in “Arid Environments”	12–14 November 2023
8	“ISO 9001: 2015” QMS Requirements and Implementation	12–16 November 2023
9	Introduction to Scanning Electron Microscopy	12–16 November 2023
10	Fundamentals of Fluid Catalytic Reactors Process (FCC) for Beginners	13–15 November 2023
11	Innovative Approach to Patent Protection and Commercial Transfer	26–29 November 2023
12	Basic Groundwater Hydrology and Modelling	26–30 November 2023
13	Microstructural Analysis of Cementitious Materials	26–30 November 2023
14	Engineering Failure Analysis	28–30 November 2023

December

no.	Course Date	Course Date
15	Mycrohizal Symbiosis in Terrestrial Ecosystem	03–07 December 2023
16	Spectroscopic Application in Petroleum and Others	03–07 December 2023
17	Introduction to Dairy Farming Management	3–7 December 2023
18	Introduction to ISO 45001: 2018 Requirements	3–7 December 2023
19	Asphaltenes: Promising Materials for Novel Applications	10–12 December 2023
20	“ISO/IEC 17025: 2017” General Requirements for the Competence of Testing Laboratories	10–14 December 2023
21	Operation of Activated Sludge Plants	10–14 December 2023
22	How to Make Sense of NGS Data? An Insight into Metagenomics Analysis	12–14 December 2023
23	Introduction to Microsoft Excel’s VBA and Applications in the Petroleum Industry	24–28 December 2023
24	Curve Fitting Toolbox in MATLAB	7–9 January 2024
25	Energy and Resources Recovery from Wastewater	7–10 January 2024
26	Occupational Health Risk Assessment	7–11 January 2024
27	MS- PowerPoints 2016	7–11 January 2024
28	Fuels Specification and Test Methods	14–16 January 2024
29	Coastal Zone Management and Climate Change	14–18 January 2024
30	Scientific Computing in Python	14–18 January 2024
31	Combined Cycle Gas Turbine (CCGT) Technology	14–18 January 2024

January

	no.	Course Date	Course Date
January	32	Android & iPhone Mobile Development Using Flutter	21-25 January 2024
	33	Radiation Protection in the Oil & Gas Industry; Safe Handling of NORM	28-31 January 2024
	34	MATLAB Beginners	28 January – 1 February 2024
February	35	Supplementary Cementitious Materials for Concrete: Specifications, Quality Testing Methods and Procedures	4-7 February 2024
	36	NSTIC E-Resources and Services	5-7 February 2024
	37	MATLAB Advanced	11-15 February 2024
	38	MS Excel Introduction	18-22 February 2024
	39	Graphical User Interface (GUI) in MATLAB	18-22 February 2024
March	40	MS Word Advanced	3-7 March 2024
	41	Basics of Food Packaging and Biodegradable Packaging	3-7 March 2024

Creating KISR Reports Using KISR's New Guidelines

PURPOSE:

The main aim of the course is to familiarize the participants with the editing guidelines for creating reports of KISR. The course will include explanations and writing exercises on the different aspects of the new Guidelines for Technical Reports of KISR, which is based on The ACS Style Guide, 3rd ed.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the rules and formatting styles in the KISR Guidelines for Technical Reports.
- Create reports based on the Guidelines for Technical Reports.
- Create reader-friendly text in KISR's documents.

INSTRUCTOR(S):

Ms. Sharon Joseph Paul (STS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Researchers
Research assistants
Administrative staff who assist in creating reports

PREREQUISITES:

- Good grasp of English language.
- Familiarity with Microsoft Office Word.

DATE & TIMINGS:

- ❖ 2– 4 October 2023
- ❖ 9:00 a.m. to 12:30 p.m.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Razan Ismail - Tel (direct): (+965) 24989587

PURPOSE:

The course aims at Introduce the participants with basic skills and knowledge of meteorological stations and their main sections, meteorological data and its importance, building a meteorological station and finding the ideal location for it. This course includes Meteorological sensors, their work principle, accuracy, range, and calibration, methods of data retrieval and analysis and verification of meteorological data. In addition, this course will improve understanding on using of meteorological data in environmental impact assessment studies, meteorological stations: Maintenance issues. This course may include field trip to demonstrate the operational principles of meteorological sensors in the field.

OBJECTIVES:

At the end of the course, participants will be able to:

- Identify the importance of meteorological data.
- Select appropriate parts for a meteorological station and the ideal location for it.
- Apply knowledge of operational principles of different sensors and the ideal environment for each type.
- Analyze meteorological data and estimate its accuracy.
- Conduct basic maintenance operations.

INSTRUCTOR(S):

Dr. Ashraf Ramadan (ELSRC)

Eng. MUSAED Shlash (ELSRC)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

Potential participants include environmentalists, science-degree holders, and engineers.

PREREQUISITES:

Basic science/engineering knowledge

DATE & TIMINGS:

- ❖ 8–12 October 2023
- ❖ 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Ebtasam Sanam - Tel (direct): (+965) 24956516

PURPOSE:

The course will provide the participants the knowledge of how to design an experimental set up based on the available equipment. This is by consider the principles of measurement, probability of statistics, analysis of data, experimental planning, and measurement of parameters in mechanical engineering systems.

OBJECTIVES:

- Explain the operating principles of common instrumentation and interpret the output.
- Apply statistical skills in creating an experiment and interpret the results.
- Design the experiment according to instrumentation measurement and sensing devices.

INSTRUCTOR(S):

Dr. Mohammad Alwazzan (EBRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Those who are interested in experimental investigation and maintain a bachelor degree, which is a minimum academic qualification.

PREREQUISITES:

Bachelor's degree

DATE & TIMINGS:

- ❖ 15–19 October 2023
- ❖ 10:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Dana Karam - Tel (direct): (+965) 24956484

PURPOSE:

This course is designed to impart detailed knowledge and comprehension of the role, responsibilities, and functioning of the Animal Ethics Committees (AECs). Participants will gain understanding of the ethical implications of animal use in research, the legal framework governing animal use, and the importance of humane treatment and welfare of animals. The course will cultivate effective decision-making skills regarding the ethical issues involving animals.

OBJECTIVES:

At the end of the course, participants will be able to:

- Recognize the importance and role of AECs in ensuring ethical animal use.
- Understand the principles and regulations governing animal use in research.
- Evaluate and make ethical decisions regarding animal use proposals.
- Develop strategies to promote animal welfare and humane treatment.
- Facilitate effective communication within an AEC and with researchers.

INSTRUCTOR(S):

Dr. Abdulaziz Alateeqi (ELSRC)

Dr. Samira Abbas (ELSRC)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

The course is suited for existing or potential AEC members, researchers, veterinarian professionals, animal welfare advocates, and anyone interested in animal ethics. The minimum academic qualification is a bachelor's degree, preferably in life sciences, veterinary science, law, ethics, or a related field.

PREREQUISITES:

Participants are expected to have a basic understanding of animal biology and ethics. Familiarity with the use of animals in scientific research or educational settings would be an advantage. The ability to critically analyze ethical dilemmas and engage in group discussions is also essential for active participation in the course.

DATE & TIMINGS:

❖ 17–19 October 2023 - 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

PURPOSE:

This workshop aims to perfect the art of Interpersonal Skills and be able to build positive relationships with others and to enhance the quality of your professional, social, and family life.

OBJECTIVES:

At the end of the workshop participants will be able to:

- Know the skills of interpersonal relationships (Colleagues, Managers, Audience.).
- How to become Charismatic.
- Knowing the qualities of a charismatic personality.
- Knowing the mistakes that repulse others.
- How to deal with different types pf personality.

INSTRUCTOR(S):

Dr. Naif Al-Mutairi (Leaders Road Company)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

The workshop is aimed for all executive levels of workers.

LANGUAGE OF THE WORKSHOP:

Arabic

DATE & TIMINGS:

- ❖ 26 October 2023
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

100 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Samah N. Al-hajeri - Tel (direct): (+965) 24989459

Masonry Units: Specifications, Quality Testing Methods, and Procedures

PURPOSE:

The main goal of the course is to provide participants with a comprehensive knowledge on masonry units including concrete blocks and sand-lime bricks, specifications, and quality testing under the local standard specifications and standard testing methods.

OBJECTIVES:

At the end of the course, participants will be able to:

- Identify the types and classifications of solid and hollow concrete blocks.
- Identify the local standard specifications and quality requirements of concrete blocks.
- Identify the standard quality testing methods of concrete blocks.
- Identify the local standard specifications and quality requirements of sand-lime blocks.
- Identify the standard quality testing methods of sand-lime blocks.

INSTRUCTOR(S):

Eng. Sharifa Al-Fadala (EBRC)

Eng. Fatma Al-Asfour (EBRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Civil engineers, and technicians developing their knowledge in supplementary cementitious materials.

PREREQUISITES:

Degree or diploma in civil engineering.

DATE & TIMINGS:

- ❖ 5–9 November 2023
- ❖ 9.00 a.m. to 1.00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Shahad Al-Jazzaf - Tel (direct): (+965) 24989095

Sustainable Soil and Farm Management Practices in Arid Environments

PURPOSE:

The main goal of this course is to introduce the properties and soil classification of Kuwait, rationale to establish national agriculture research stations (NARS), fundamental principles to establish an agricultural farm. In addition, this course will improve understanding on protecting farm soils from degradation and improving soil productivity and adopting innovative climate smart agricultural practices (soil, water, crops, nutrients, etc.).

OBJECTIVES:

At the end of the course, participants will be able to:

- Diagnose soil health related problems, develop extension services, knowledge systems, and promote innovation in farming.
- Develop guides to establish an agricultural farm based on soil types diagnostics.
- Adopt soil management practices to reduce soil degradation and environment pollution.
- Manage agricultural farm residues to improve soil productivity, and save water and fertilizers.

INSTRUCTOR(S):

Dr. Shabbir Shahid (ELSRC) - **Ms. Laila Almulla** (ELSRC) - **Dr. Amal Alkandari** (ELSRC)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

Agriculture engineers
Professionals/researchers
Farm manager
Soil technicians
Field assistants
Students (M.Sc./Ph.D.) dealing with soils in their research work
Chemistry terminologies

PREREQUISITES:

Minimum B.Sc. degree
English language
Basic understanding of soil terms

DATE & TIMINGS:

❖ 12–14 November 2023 - 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.
Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Ebtessam Sanam - Tel (direct): (+965) 24956516

PURPOSE:

The main objective of the course is to familiarize participants with the modern concept of “Quality Management” and its inevitability in the current era of competitiveness. International standard ISO 9001:2015 will be focused as a model for management of the quality of the product and/or service. The participants will be acquainted with the requirements of the recently updated international standards and documents needed for their fulfillment. The processes of designing, implementing and monitoring the “Quality Management System” will be edified, and the participants will also learn about various steps involved in the certification procedure.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the modern concept of Quality Management and its necessity.
- Realize the international standard ISO 9001:2015 and its importance.
- Identify the requirements of the standards and their fulfillment.
- Comprehend with the processes of designing, implementing, and monitoring (internal audit) the Quality Management System.
- Recognize the steps involved in the certification process.

INSTRUCTOR(S):

Dr. Tariq Mahmood Khokhar (STS) - Dr. Mamdouh A. A. Hammouda (STS)
Dr. Yesudhason Poullose (STS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

All types of organizations and functions that includes research activities, laboratory activities, administration, and support functions. The course is proposed for all individuals requiring an understanding and working knowledge of the ISO Quality Management System.

PREREQUISITES:

Awareness with ISO standards is preferred.

DATE & TIMINGS:

❖ 12-16 November 2023 - 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Razan Ismail - Tel (direct): (+965) 24989587

PURPOSE:

The objective of this course is to provide an overview of scanning electron microscopy (SEM). It will provide the participants with the fundamentals of SEM, how it works and why it is used, in addition to hands-on experience in operating an SEM.

OBJECTIVES:

At the end of the course, participants will be able to:

- Identify the different components in an SEM.
- Understand the principles behind electron microscopy and its uses.
- Understand the difference between secondary and backscattered electron imaging.
- Develop skills in image interpretation and analysis using SEM.
- Understand the basic concept of energy dispersive x-ray spectroscopy (EDS).
- Operate an SEM.

INSTRUCTOR(S):

Dr. Mohammad Abdulsalam (EBRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Scientists, engineers, researchers, technicians, or individuals from various fields who want to gain practical knowledge and skills in scanning electronic microscopy.

PREREQUISITES:

No prior experience in an SEM is required. However, basic knowledge in microscopy and chemistry would be beneficial.

DATE & TIMINGS:

- ❖ 12–16 November 2023
- ❖ 9.00 a.m. to 1.00 p.m.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

Fundamentals of Fluid Catalytic Reactors Process (FCC) for Beginners

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PURPOSE:

The aim of the course is to provide participants with the fundamentals of the catalytic cracking process from the point of view of chemistry and engineering.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the basic chemistry of catalytic cracking.
- Understand the role of FCC in refinery.
- Become familiarized with the main mechanical equipment and their potentiality.
- Understand how the feedstock quality affects the process.
- Relate the operational variables.
- Understand the role of the catalyst and its limitations.
- Know how to resolve typical process problems.

INSTRUCTOR(S):

Dr. Narjes Ghaloum (PRC)

Dr. Andres Quesada Perez (PRC)

LOCATION:

Petroleum Research Center, Al Ahmadi, KISR

PARTICIPANTS:

Process engineers working in FCC or requiring understanding the process.
DHD, engineer in chemical engineering or related area.

PREREQUISITES:

Ph.D. holders or engineers in chemical engineering or related area.
Degree in Chemistry.

DATE & DURATION:

- ❖ 13–15 November 2023
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Samah N. Al-hajeri - Tel (direct): (+965) 24989459

Innovative Approach to Patent Protection & Commercial Transfer

PURPOSE:

The main aim of the course is to provide participants with knowledge on the methods of drafting strong patent applications, patenting & commercial strategies and proof of concept.

OBJECTIVES:

At the end of the course, participants will be able to:

- Identify IPs.
- Use the patent and know-how form.
- Increase the technology readiness of IPs.
- Map the protection of IPs to prospect commercial transfer plan.

INSTRUCTOR(S):

Ms. Fatma Shah Aswar (MCS)

Eng. Fatima Abdulsalam (MCS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Researchers

DATE & TIMINGS:

❖ 26–29 November 2023

❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Shahad Al-Jazzaf - Tel (direct): (+965) 24989095

PURPOSE:

Participants will gain knowledge and information about analysis of movement of groundwater flow and pollutants in porous media, assessment of aquifer recharge and analysis of contour maps of water levels. In addition, this course will provide participants with assessment of wells productivity and yield potentiality of utilized aquifers and construction of groundwater flow and pollution modeling studies.

OBJECTIVES:

At the end of the course, participants will be able to:

- Determine the productivity of wells and yields of utilized aquifers.
- Assess groundwater recharge.
- Analyze contour maps of water levels in aquifers.
- Construct groundwater flow and pollution modelling.

INSTRUCTOR(S):

Dr. Amjad Aliewi (WRC)

Mr. Habib Al-Qallaf (WRC)

Mr. Tareq Rashid (WRC)

Mr. Harish Bhandary (WRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Water engineers and managers.

Environment scientists, engineers, and managers.

Cerographic scientists.

Geologists and hydrogeologists.

Agricultural engines, scientists, and managers.

PREREQUISITES:

Basic degree in science and engineering.

DATE & DURATION:

❖ 26–30 November 2023

❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Ebtessam Sanam - Tel (direct): (+965) 24956516

PURPOSE:

The main goal of the course is to provide participants with a practical guidance on the different, common, and most effective methods and techniques used in the scientific field of microstructural analysis of cementitious materials.

OBJECTIVES:

At the end of the course, participants will be able to:

- Recognize that the microstructure of a material is the key to understand its properties and performance.
- Understand the different methods to characterize the microstructure of cementitious materials.
- Recognize the best use of different techniques and interpretation of results.

INSTRUCTOR(S):

Dr. Anfal Al-Aibani (EBRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Civil engineers, scientists, researchers, technicians, and individuals who want to develop their knowledge in cementitious materials.

PREREQUISITES:

Degree or diploma in engineering and/or basic knowledge in chemistry.

DATE & TIMINGS:

- ❖ 26-30 November 2023
- ❖ 9:00 a.m. to 12:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Razan Ismail - Tel (direct): (+965) 24989587

PURPOSE:

The main goal of this course is to provide participants with an understanding of the general failure analysis, corrosion fundamentals and principles, and practical methods of corrosion control and failure prevention. Also, this course will have practical session that will introduce participants to using electrochemical methods to calculate the corrosion rate, optical microscope to examine the microstructure, and scanning electron microscopy (SEM) for materials characterization.

OBJECTIVES:

At the end of the course, participants will be able to:

- Cover corrosion fundamentals and principles.
- Understand the corrosion rate expressions, electrochemical reactions, polarization, passivity, and influence of flow rate.
- know forms of corrosion, such as general, galvanic, pitting, erosion, stress, amongst others.
- Understand the gravimetric and some electrochemical measurement techniques, such as potentiodynamic polarization, linear polarization resistance (LPR), and electrochemical impedance spectroscopy (EIS).
- Understand the general failure analysis.
- Understand the practical methods of corrosion control and failure prevention.
- Analyze some corrosion failures in oil and gas industry.
- Understand different protection methods for oil and gas industry.
- Practically examine the microstructure (optical microscope), materials characterization (SEM), and calculate the corrosion rate (electrochemical methods).

INSTRUCTOR(S):

Dr. Rihan Rihan (PRC) - **Eng. Bader Al-Wakaa** (PRC) - **Ms. Abeer Al-Farhan** (PRC) - **Mr. Abdullateef Reja** (PRC)

LOCATION:

Petroleum Research Center, Al Ahmadi, KISR

PARTICIPANTS:

Individuals with a diploma or bachelor degree in engineering or chemistry who wish to broaden their knowledge in the field of engineering failure analysis.

PREREQUISITES: An understanding of basic chemistry and physics.

DATE & DURATION:

❖ 28–30 November 2023 - 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Samah N. Al-hajeri - Tel (direct): (+965) 24989459

Mycorrhizal Symbiosis in Terrestrial Ecosystem

PURPOSE:

The training course is designed for researchers, scientists, professionals, and others interested in an overview of the mycorrhizal associations with plants, and practical and theoretical aspects of using soil microbes to enhance plant growth and nutrient cycling in the remediation and reclamation studies conducted by KISR.

OBJECTIVES:

At the end of the course, participants will be able to:

- Obtain an introductory level knowledge on mycorrhizal association with host plants and its significance and function.
- Introduce to different mycorrhiza types present in ecosystem.
- Distinguish the main mycorrhiza types according to morphological and anatomical features.
- Learn how to isolate AM fungal spores from soil, a pure culture of ectomycorrhizal symbionts.
- Produce Arbuscular Mycorrhizal fungal inoculum. Participants will have understanding of the use of mycorrhiza in ecosystem restoration programs.

INSTRUCTOR(S):

Dr. Ali M. Quoreshi (ELSRC) - **Dr. Anisul Islam** (ELSRC) - **Ms. Munera AlKhudher** (ELSRC)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

Scientists and professionals interested in revegetation and restoration work and agricultural or horticultural production.

Individuals interested in soil remediation and nutrient cycling research.

Owners/members of plant nurseries and other agencies responsible for producing seedlings for restoration or remediation projects.

Graduate students.

PREREQUISITES:

- ◆ Working knowledge in English
- ◆ Strong interest in plant and soil sciences relating to desert ecosystem
- ◆ Basic knowledge in plant nutrition
- ◆ Interest in environmental remediation

DATE & DURATION: 3–7 December 2023 - 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

PURPOSE:

The main aim of the course is to provide participants with knowledge on spectroscopy and its application in different areas of science

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the theory of spectroscopy and the background of each instruments.
- Set up and run an experiment.
- Make simple interruption to the spectra and extract information.
- Observe the advantage of spectroscopy on other methods.

INSTRUCTOR(S):

Mr. Mustafa AL-Shamali (PRC)

Ms. Fatma Al-Attar (PRC)

Ms. Tahani AlShammari (PRC)

Ms. Roaya Kadhmi (PRC)

Eng. Nadja Suleimamovic (PRC)

LOCATION:

Petroleum Research Center, Al Ahmadi, KISR

PARTICIPANTS:

Technicians, oil industry engineers, power & water industry engineers.

PREREQUISITES:

Diploma, bachelor, master, Ph.D. in science.

DATE & DURATION:

- ❖ 3–7 December 2023.
- ❖ 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Samah N. Al-hajeri - Tel (direct): (+965) 24989459

Introduction to Dairy Farming Management

PURPOSE:

The course is designed to equip participants with comprehensive knowledge and practical skills on dairy farming management. The course focuses on principles of dairy farming, modern dairy management techniques, sustainable dairy farming practices, and critical problem-solving skills required in the industry. This course aims to impart participants with real-world experience, enabling them to apply acquired skills and knowledge in diverse dairy farming settings.

OBJECTIVES:

At the end of the course, participants will be able to:

- Demonstrate understanding of the fundamentals of dairy farming management.
- Illustrate modern dairy farming techniques for optimal milk production.
- Discover the importance of sustainable dairy farming methods for the protection of our natural environment.
- Recognize common problems faced in the dairy farming industry.
- Understand strategies regarding dairy nutrition, breeding, and health management.
- Examine plans to manage and optimize dairy farming operations.

INSTRUCTOR(S):

Dr. Abdulaziz Alateeqi (ELSRC) - Dr. Samira Abbas (ELSRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

The course is ideal for individuals interested in or currently involved in dairy farming, such as farmers, dairy industry professionals, agricultural students, or entrepreneurs looking to venture into dairy farming. Minimum academic qualification is a high school diploma; however, participants with a background in biology, veterinary science, agriculture, or related fields may find the course especially beneficial.

PREREQUISITES:

Basic understanding of biology and an interest in dairy farming or animal husbandry will be advantageous. Additionally, participants are expected to be physically fit as the course will involve field visits and hands-on training sessions.

DATE & DURATION:

❖ 3-7 December 2023 - 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Ebtessam Sanam - Tel (direct): (+965) 24956516

PURPOSE:

The main aim of the course is to familiarize the participants with a well-recognized and widely implemented safety management system. The ISO 45001:2018 has been recently issued and will fully replace the British Safety international standard OHSAS 18001:2007 by 2021. The new standard defines the requirements for developing and implementing an occupational health and safety management system that can be assessed and certified. At the same time, it can also be fully and easily linked with other fundamental ISO standards for quality (ISO 9001:2015) and environmental management (ISO 14001:2015), facilitating the creation of an integrated management system. The participants will become acquainted with the requirements of the standard and its implementation. Examples of ways to comply with the requirements will be analyzed, commented, and further discussed.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the concept of safety management systems and their dynamic and evolving nature
- Be aware of the international standard ISO 45001:2018 and how it compares with the OHSAS 18001:2007
- Understand the standard's requirements
- Identify potential implementation solutions (schemes/processes/tools) aligned to quality or environmental management systems

INSTRUCTOR(S):

Dr. Massimiliano Porcelli (STS)

Dr. Yesudhason Poullose (STS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

The course is intended for laboratory and workshop supervisors as well as research and maintenance staff members.

PREREQUISITES:

English language skills and basic understanding of HSE processes

DATE & DURATION:

❖ 3–7 December 2023 - 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Razan Ismail - Tel (direct): (+965) 24989587

Asphaltenes: Promising Materials for Novel Applications

PURPOSE:

Asphaltenes precipitation and deposition is a significant problem of flow assurance in the oil and gas industry for both upstream and downstream processes. However, these problematic complex hydrocarbon molecules are rich in potential. The major goal of this comprehensive course is to show the participants that asphaltenes are promising novel materials for future use in several industries. The designed course will aim to provide participants with an in-depth understanding of the chemical and physical characteristics of asphaltenes. Eventually, the training team intends to bring the participants' attention to the value of asphaltenes as raw materials for future applications.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the physical and chemical behaviors of asphaltenes
- Learn how to classify the asphaltenes and analyze them
- Explore the potential applications of asphaltenes in different research and development areas

INSTRUCTOR(S):

Dr. Salim OK (PRC)

Dr. Muhieddine Safa (PRC)

Dr. Jacob Samuel (PRC)

LOCATION:

Petroleum Research Center, Al Ahmadi, KISR

PARTICIPANTS:

Professionals, researchers, and technicians from KISR and outside KISR such as KOC, KIPIC, and KNPC

PREREQUISITES:

College diploma/bachelor of engineering in chemical engineering or petroleum engineering.

B.Sc. degree in chemical technology.

Knowledge in English language.

Familiarity with crude oil and asphaltenes.

DATE & TIMINGS:

❖ 10–12 December 2023

❖ 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Shahad Al-Jazzaf - Tel (direct): (+965) 24989095

ISO/IEC 17025:2017 General Requirements for the Competence of Testing Laboratories

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PURPOSE:

The main purpose of the course is to familiarize participants with the modern concept of “laboratory quality management” and its inevitability in the current era of competitiveness. International standard ISO/IEC 17025:2017 will be focused as model for management of the quality in calibration/testing laboratories. The participants will be acquainted with the general requirements for competence of testing/calibration laboratories and documents needed for their fulfillment. The processes of designing, implementing and monitoring the “Laboratory Quality Management System” will be taught, and the participants will also learn about various steps involved in the accreditation procedure.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the modern concept of quality management and its necessity.
- Be aware of the international standard ISO/IEC 17025:2017.
- Identify the requirements of the standard and its fulfillment.
- Comprehend with the processes of designing, implementing, and monitoring (internal audit) the laboratory quality management system.
- Be aware of the steps involved in the accreditation process.

INSTRUCTOR(S):

Dr. Tariq Mahmood Khokhar (STS) - Dr. Mamdouh A. A. Hammouda (STS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Laboratory professionals and technicians; laboratory supervisors and focal points; QMS representatives and coordinators; laboratory managers, quality managers, chemists; and individuals requiring an understanding and working knowledge of ISO/IEC 17025:2017 laboratory quality management standard.

PREREQUISITES:

Background / experience in analytical laboratories is preferred.

DATE & DURATION:

- ❖ 10–14 December 2023
- ❖ 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Razan Ismail - Tel (direct): (+965) 24989587

Operation of Activated Sludge Plants

PURPOSE:

The purpose of this course is improving the participants' skills, knowledge, expertise, and awareness on the following issues:

- Basic principles of activated sludge treatment processes.
- State-of-the-art of activated sludge technologies.
- Experiences gained in operation of activated sludge plants.

OBJECTIVES:

At the end of the course, participants will be able to know the following:

- Principles and objectives of activated sludge treatment.
- Types of activated sludge systems.
- Design of activated sludge systems.
- Main operational variables of activated sludge plants.

INSTRUCTOR(S):

- Dr. Abdallah Abusam** (WRC)
- Dr Mishari Khajah** (WRC)
- Dr. Hussain Safar** (WRC)
- Dr Abdallah Almatouq** (WRC)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

Civil, chemical, mechanical, and environmental engineers
Chemists, biologists, and technicians of wastewater laboratories

PREREQUISITES:

1–2 years of experience in wastewater or related field
Good knowledge of English language.

DATE & DURATION:

- ❖ 10–14 December 2023
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

How to Make Sense of NGS Data? An Insight into Metagenomic Analysis

PURPOSE:

Participants will gain knowledge and information about resources and techniques for data analysis of metagenomic sequences. Hands on experience will be provided for the following:

Retrieval and processing of post-sequencing data (FASTQC analysis).

Introduction to graphical user interfaces of various online resources.

Preparing metadata and OTU files for analysis.

Complete workflow of NGS data analysis through online software.

Submission of raw sequences to public repositories and obtaining an accession number.

OBJECTIVES:

Participants will be able to perform:

- Comprehensive analysis of metagenomic datasets.
- Quality assessment of the FASTA sequences provided by the service provider.
- Knowledge of taxonomic profiling, hierarchical clustering, and functional annotation.

INSTRUCTOR(S):

Dr. Saja Fakhraldeen (ELSRC)

Dr. Nazima Habibi (ELSRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Researchers, scientists, professionals, and support staff from KISR who are interested in gaining knowledge on the advanced methods of analyzing sequencing data obtained through next generation sequencing.

PREREQUISITES:

B.Sc., M.Sc., or Ph.D. in the biological sciences, environmental or medical sciences, or related fields.

DATE & DURATION:

❖ 12–14 December 2023

❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Samah N. Al-hajeri - Tel (direct): (+965) 24989459

Introduction to Microsoft Excel's VBA and Applications in the Petroleum Industry

PURPOSE:

The course aims to equip its participants, who use Microsoft Excel™, with programming tools and experience that significantly enhance their utilization of the software by reducing the time and effort required to process data. An introduction to the Visual Basic package associated with Microsoft Excel™ will be provided. Participants will be exposed to the fundamentals of programming and will learn how to incorporate it into Excel. Additionally, participants will be provided with exercises to assess their mastery of acquired programming skills. They will also be shown how these skills can be applied in the petroleum industry. After this course, participants should be able to develop their own programs for their applications using Excel's VBA package and automate processes that are tedious when performed manually.

OBJECTIVES:

Participants will be able to:

- Introduce Microsoft Excel's VBA package and highlight general advantages and disadvantages of usage.
- Learn how to apply the required settings that enable VBA in Excel.
- Learn the appropriate syntax of Microsoft Excel's VBA package.
- Provide a basic understanding of the concept of variables, in addition to their types and associated operators.
- Understand the basics of arrays and the concept of multi-dimensional arrays.
- Understand basic programming functions and how to design custom functions.
- Learn how to navigate through and refer to cells and sheets across an Excel workbook.
- Learn how to automate the control of data throughout an Excel workbook.
- Learn the concept of recording macros and how to program without the knowledge of VBA syntax.
- Understand how to learn syntax through macro recording.
- Provide petroleum industry related programming exercises to reinforce and learn how to apply acquired skills in the petroleum industry.

INSTRUCTOR(S):

Eng. Hussain Al-Mazidi (PCR)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Technicians, engineers, professionals, and/or researchers in the upstream/downstream petroleum industry who deal with extensive amounts of data in Microsoft Excel™ and wish to optimize the time and effort spent processing raw data into key results.

PREREQUISITES:

A basic background in using Microsoft Excel™

DATE & DURATION:

- ❖ 24–28 December 2023
- ❖ 9:00 a.m. to 12:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Shahad Al-Jazzaf - Tel (direct): (+965) 24989095

PURPOSE:

To enable the participants to use the software and analyses data, gain experience and development skills in research and advanced methods for data analyses.

OBJECTIVES:

At the end of the course, participants will be able to:

- Provide an app and functions for fitting curves
- Surfaces to the data that is been studied and applied to use.
- Perform modeling techniques for exploratory data analysis.

INSTRUCTOR(S):

Eng. Shaker Ebrahim (PRC)

LOCATION:

Petroleum Research Center, Al Ahmadi, KISR

PARTICIPANTS:

All scientific and Professionals majors.

PREREQUISITES:

Introduction in MATLAB

DATE & DURATION:

- ❖ 7–9 January 2024
- ❖ 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Shahad Al-Jazzaf - Tel (direct): (+965) 24989095

PURPOSE:

The general purpose of this four-day course is to provide the participants with the basic knowledge of energy recovery from wastewater and update the participants with the latest technologies that can be used to recover energy from domestic and industrial wastewater. The course will focus on the latest treatment technologies for wastewater characterization and pollutants, energy and resources recovery from wastewater, anaerobic digestion fundamentals, challenges and applications, and reuse options. At the end of the training, the participants will be able to identify the technologies that can be used for energy and resources recovery. In addition, the participants will be able to calculate the amount of energy that can be extracted from wastewater.

OBJECTIVES:

At the end of the course, participants will be able to:

- Identify the amount of energy in wastewater.
- Know the latest treatment technologies and their role in wastewater treatment plant.
- Acquire knowledge on international good practice of energy and resources recovery from wastewater

INSTRUCTOR(S):

Dr. Abdullah Al-Matouq (WRC) - **Dr. Mohamed Elmuntasir** (WRC)
Dr. Abdallah Abusam (WRC) - **Dr. Mishari Khajah** (WRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Researchers, engineers, and managers from government and private sectors.
Operators of wastewater treatment plants.
Final year and graduate level university students (civil and chemical engineering) who want to pursue opportunities in wastewater reuse.

PREREQUISITES:

Bachelor's degree in a related field with experience in waste (water) or related field.
Proficiency in Arabic and English languages

DATE & DURATION:

❖ 7–10 January 2024 - 8:30 a.m. to 12:30 p.m.

FEES:

250 KD - participant inclusive of materials.
Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Samah N. Al-hajeri - Tel (direct): (+965) 24989459

PURPOSE:

The main objective of this training course to familiarize the participants with the concept of occupational health hazards at workplaces and to provide the participants with the necessary skills and knowledge required to conduct effective risk assessment within their organizations. The participants will go through case studies and problem-solving and understand the best risks control measures available. In addition, the participants will understand the most frequent work-related diseases.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the concept of occupational health.
- Understand the occupational risk assessment methods.
- Identify the hazards, assess risks, and select the best available control measures.
- Know the most frequent work-related diseases and how to minimize them.

INSTRUCTOR(S):

Dr. Mufreh S. Al-Rashidi (STS)

Mr. Meshari Al-Qallaf (STS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

The course is applicable for all organizations, including researchers, laboratories staff, and staff of administration, and support functions. The course is proposed for all individuals requiring an understanding and working knowledge of occupational health and risk assessment.

PREREQUISITES:

The participants will need sufficient English language to read, understand, and discuss in the groups.

DATE & DURATION:

- ❖ 7–11 January 2024
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Razan Ismail - Tel (direct): (+965) 24989587

PURPOSE:

The primary purpose of this course is to provide participants with the knowledge and skills needed to utilize PowerPoint effectively in their daily tasks, thereby enhancing the quality of their work.

OBJECTIVES:

At the end of the course, participants will be able to:

- Achieve a solid foundation in using Microsoft PowerPoint as a versatile tool to enhance their professional work.
- Navigate the PowerPoint interface with confidence and create/edit slides with diverse content elements.
- Apply appropriate formatting and styling to ensure visual coherence and effectiveness.
- Incorporate multimedia elements, such as images, audio, and video, to enrich their presentations.
- Utilize slide transitions and animations to enhance the visual appeal and engagement of their presentations.
- Collaborate seamlessly with others on presentations and efficiently manage version control.
- Produce professional-quality presentations that effectively convey their ideas and messages.
- Elevate their work quality and communication skills through empowered usage of PowerPoint.

INSTRUCTOR(S):

Ms. Al-Bandri AlaAjmi (AFSS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

A participant who wish to gain the foundational understanding of Microsoft Office PowerPoint 2016 and who wish to take advantage of the application's higher-level usability, security, collaboration and distribution functionality.

PREREQUISITES:

Participant will need to have Good knowledge of MS-Windows.

DATE & DURATION:

- ❖ 7–11 January 2024
- ❖ 9:00 a.m. to 2:00 p.m.

FEES:

75 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nujoud AlMutairi - Tel (direct): (+965) 24956486

PURPOSE:

This course will give an overview on the fuel industry and the significance of the fuel properties and their effect on the market value. The course will also cover the refining processes (hydrocracking, hydrotreating, isomerization, etc.) for fuel production. Discussions will be held on gasoline and diesel specifications and the usage of fuel additives to meet the specifications. The course will enhance the participant knowledge in petroleum chemistry field by covering the crude oil chemical composition. Finally, the participants will gain an in-depth knowledge and understanding of the impact of fuel specification on the refining industry.

OBJECTIVES:

At the end of the course, participants will be able to:

- Gain an overview on the fuel industry.
- Comprehend the chemistry of the fuel at a molecular level.
- Know how fuels are evaluated based on their properties.
- Understand the fuel production processes.
- Be familiar with the international fuel specifications.
- Understand how to improve the fuel properties with additives.
- Assess the impact of the fuel properties on its process ability.

INSTRUCTOR(S):

Dr. Hassan Al-Rabiah (PRC)

Dr. Mohan S. Rana (PRC)

LOCATION:

Petroleum Research Center, Al Ahmadi, KISR

PARTICIPANTS:

Chemists, chemical engineers, petroleum engineers, technicians, and anyone involved in decision making or working in oil-related industry and business in need to understand fuel specifications

PREREQUISITES:

B.Sc. degree in science or engineering
College diploma in chemical engineering
Work experience in petroleum industry
Knowledge in English

DATE & DURATION:

❖ 14–16 January 2024 - 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Samah N. Al-hajeri - Tel (direct): (+965) 24989459

PURPOSE:

Participants will gain knowledge and information about the importance of coastal zone management and its integration with climate change for a successful sustainable development.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the special nature of a coastal zone and the pressures upon it
- Understand the impacts of climate change on our coastal zone
- Understand the need of integration between different organizations to address common coastal goals
- Develop the skills to identify, evaluate, and prioritize coastal zone issues

INSTRUCTOR(S):

Dr. Alanoud Al-Ragum (ELSRC)

Ms. Dana Al-Houti (ELSRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Employees from KISR, EPA, KU, MPW, MEW, Kuwait Municipality, NGOS, etc., and anyone who is interested in coastal-related issues.

DATE & DURATION:

- ❖ 14–18 January 2024
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Ebtessam Sanam - Tel (direct): (+965) 24956516

PURPOSE:

Computing is a field that makes a computer deal with counting and calculating. Computing has the benefits for large experimentation of algorithmic processes. In research area, researchers can process various algorithms using scientific computing. This course will provide a compact introduction to scientific computing using Python programming language. Python is one of the most popular languages for scientific computing. Python is a simple yet high-level programming language that is suitable for advanced tasks and algorithms.

OBJECTIVES:

At the end of the course, participants will be able to:

- Learn the basics of Python programming language.
- Learn semantics and syntax levels of Python programming language.
- Understand the object-oriented program design and development.
- Understand and begin to implement code.

INSTRUCTOR(S):

Mr. Saud Alramzi (AFSS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Computer engineers, computer scientists, programmers, coding enthusiasts.

PREREQUISITES:

Basic computer skills

Understand difference between front-end and back-end

Probability & statistics

DATE & DURATION:

❖ 14–18 January 2024

❖ 9:00 a.m. to 1:00 p.m.

FEES:

100 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Razan Ismail - Tel (direct): (+965) 24989587

PURPOSE:

The purpose of this training course is to equip participants with fundamental knowledge about the gas turbine technologies and application in power generation and natural gas pumping.

OBJECTIVES:

At the end of the course, participants will be able to:

- Better interpret the thermodynamics, operation and advanced maintenance principles of the gas turbine engine working together with steam turbine to generate electricity and as mechanical drive applications.
- Understand the gas turbine power augmentation strategies including inlet filtration systems, compressor washing and inlet cooling technologies.
- Appreciate the roles and challenges of gas turbine engines in the energy transition.

INSTRUCTOR:

Dr. Suleiman M. Suleiman (EBRC)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

Research professionals working in the area of turbomachinery.

Engineers and operators who freshly joined the energy industry or have extensive experience with gas turbine engines in power and oil & gas industries.

PREREQUISITES:

Bachelor's degree in either mechanical engineering, industrial engineering or mechanical engineering.

DATE & DURATION:

❖ 14-18 January 2024

❖ 9:00 – 1:30

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

PURPOSE:

This course is designed for beginners who want to learn Flutter and Dart, and create beautiful apps for both iOS and Android platforms using just one programming language.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the fundamentals: Gain a solid understanding of the core concepts and principles of mobile application development for Android and iPhone platforms.
- Build user interfaces: Acquire the skills to create visually appealing and user-friendly interfaces for mobile applications.
- Implement applications functionality: Learn how to implement various functionalities such as data storage, user input handling, network communication, and integration of device features like GPS and camera.
- Explore app frameworks and libraries: Familiarize yourself with popular frameworks and libraries specific to Android and iPhone development to enhance app functionality and efficiency.
- Develop a fully functioning app: Apply the knowledge gained throughout the course to develop a complete and functional mobile application for both Android and iPhone platforms.
- Optimize performance: Learn techniques to optimize app performance, including memory management, code efficiency, and UI responsiveness.
- Test and debug: Acquire skills in testing and debugging mobile applications to ensure smooth functionality and identify and fix common issues.

INSTRUCTOR:

Eng. Omar Almutairi (AFSS)

LOCATION:

Human Resources Development and Conferences Center, KISR

PREREQUISITES:

Basic knowledge of programming

DATE & DURATION:

- ❖ 21–25 January 2024
- ❖ 9:00 a.m. – 1:00 p.m.

FEES:

100 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

Radiation Protection in the Oil & Gas Industry; Safe Handling of NORM

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PURPOSE:

The purpose of the training is to highlight the problem of NORM waste in the oil & gas industry and to provide guidance on the issues relevant to radiation protection of workers, the public, and the environment.

OBJECTIVES:

At the end of the course, participants will be able to:

- Gain an understanding of NORM in industries.
- Gain an understanding of the radiological aspects of NORM

INSTRUCTOR(S):

Mr. Abdulaziz Aba (ELSRC)

Ms. Anfal Ismaeel (ELSRC)

Mr. Omar Al-Boloushi (ELSRC)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

Professionals, technicians, health, safety, and environment personnel in the oil and gas industries, and those dealing with radiation protection.

PREREQUISITES:

People involved in NORM issue.

DATE & TIMINGS:

- ❖ 28–31 January 2024
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

PURPOSE:

The purpose of this course is to gain programming skills in MATLAB, which are also useful for other programming languages, and apply the knowledge in research projects

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand and practice basic programming skills for MATLAB that is also applicable and useful for other programming languages, such as loops and selection statements.
- Be able to write and run their own MATLAB scripts and functions applicable for all majors and research

INSTRUCTOR(S):

Dr. Yaaqoub Malallah (EBRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Technicians, professionals and researchers

PREREQUISITES:

MATLAB installed (if possible, on the participants' laptop)
Bachelor's degree in science/engineering.

DATE & DURATION:

- ❖ 28 January–1 February 2024
- ❖ 9:00 a.m. to 1:30 p.m.

FEES:

100 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nujoud AlMutairi - Tel (direct): (+965) 24956486

Supplementary Cementitious Materials for Concrete: Specifications, Quality Testing Methods and Procedures

PURPOSE:

The main goal of the course is to provide participants with a comprehensive knowledge on commonly used supplementary cementitious materials for concrete, specifications, and quality testing under the standards specifications and standard testing methods.

OBJECTIVES:

At the end of the course, participants will be able to:

- Identify types and classifications of supplementary cementitious materials used for concrete
- Recognize standard specifications and quality requirements of supplementary cementitious materials for concrete
- Identify standard quality testing methods of supplementary cementitious materials for concrete

INSTRUCTOR(S):

Eng. Sharifa Al-Fadala (EBRC)

Eng. Dana Dashti (EBRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Civil engineers, and technicians developing their knowledge in supplementary cementitious materials.

PREREQUISITIES:

Degree or diploma in civil engineering.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

DATE, DURATION & TIME:

❖ 4–7 February 2024

❖ 9:00 a.m. to 1:00 p.m.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Ebtesam Sanam - Tel (direct): (+965) 24956516

PURPOSE:

The main aim of the course is to provide participants with knowledge on how to access and use all of NSTIC's e-resources.

OBJECTIVES:

At the end of the course, participants will be able to:

- Use NSTIC portal efficiently
- Access specific databases that are relevant to their subject fields
- Use various tools, e.g., JCR, RefWorks, Grammarly, Ulrich, and more
- Use NSTIC Catalog within NSTIC portal
- Identify NSTIC portal services

INSTRUCTOR(S):

Mr. Bassam Awadh (STS)

Mr. Meshari Abdulwahab (STS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

All KISR staff (Scientific sector)

DATE & DURATION:

- ❖ 5–7 February 2024
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nujoud AlMutairi - Tel (direct): (+965) 24956486

PURPOSE:

The purpose of this course is to gain programming skills in MATLAB, which are also useful for other programming languages, and apply the knowledge in research projects

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand and practice advanced programming skills for MATLAB, which are also applicable and useful for other programming languages, such as structures and string manipulations.
- Process and write advanced MATLAB data structures and functions applicable for all majors and research

INSTRUCTOR(S):

Dr. Yaaqoub Malallah (EBRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Technicians, professionals, researchers

PREREQUISITES:

MATLAB installed (if possible, install in participants' laptop)
Bachelor's degree in science / engineering.
Basics of MATLAB

DATE & DURATION:

- ❖ 11–15 February 2024
- ❖ 9:00 a.m. to 1:30 p.m.

FEES:

100 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nujoud AlMutairi - Tel (direct): (+965) 24956486

URPOSE:

The purpose of the in-house course titled «Microsoft Excel Introduction» is to equip participants with the fundamental knowledge and skills necessary to effectively use Microsoft Excel, a widely used spreadsheet program. The course aims to provide a comprehensive overview of Excel's features, functionalities, and practical applications, catering to individuals who are new to the software or have limited experience with it.

OBJECTIVES:

At the end of the course, participants will be able to:

- Obtain a comprehensive understanding of Microsoft Excel's interface, navigation, and key components.
- Proficiently enter, edit, and format data in Excel spreadsheet.
- Familiarize with basic formulas and functions in Excel for performing calculations and data analysis.
- Get introduced to data manipulation techniques such as sorting, filtering, and creating tables.
- Create charts and graphs to visually represent data in Excel.
- Demonstrate the use of Excel's built-in analysis tools for exploring data and identifying trends.
- Gain knowledge to collaborate on Excel workbooks, track changes, and protect data.
- Learn techniques for improving productivity and efficiency in Excel, such as using shortcuts and automation feature.
- Obtain critical thinking and problem-solving skills by presenting real-world scenarios and challenges that can be solved using Excel.

INSTRUCTOR:

Eng. Laila Aljumaah (AFSS)

LOCATION:

Human Resources Development and Conferences Center, KISR

PARTICIPANTS:

This course is intended for participants who wish to gain the foundational understanding of Microsoft Office Excel.

PREREQUISITES:

Participant will need to have good knowledge of MS-Windows.

DATE & DURATION:

❖ 18–22 February 2024 - 10:00 a.m. to 2:00 p.m.

FEES:

75 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nisreen Maswadeh - Tel (direct): (+965) 24956748

PURPOSE:

To enable the participants to build and design app or interface in MATLAB, gain experience and development skills in research and advanced methods for data analyses.

OBJECTIVES:

At the end of the course, participants will be able to:

- Create apps in MATLAB.
- Design graphical interface.
- Program and control the graphical design.
- Learn new advance topics in MATLAB.

INSTRUCTOR(S):

Eng. Shaker Ebrahim (PRC)

LOCATION:

Petroleum Research Center, Al Ahmadi, KISR

PARTICIPANTS:

All scientific and Professionals majors.

PREREQUISITES:

Introduction in MATLAB

DATE & TIMINGS:

- ❖ 18–22 February 2023
- ❖ 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:

Ms. Shahad Al-Jazzaf - Tel (direct): (+965) 24989095

PURPOSE:

The main aim of the course is to provide participants with knowledge and skills on using MS Word in their daily or business life. It also teaches them the main elements and certain shortcuts in the application.

OBJECTIVES:

At the end of the course, participants will be able to:

- Work with text and styles.
- Create advanced formatting and document organization.
- Work with references and collaboration identify and use Ulrich's Directory.
- Use advanced features and create final project.

INSTRUCTOR(S):

Ms. Fai Al-Thleeth (AFSS)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Participants who want to gain advanced knowledge of working on Word 2016.

PREREQUISITES:

Basic knowledge of MS-Office Word 2016.

DATE & DURATION:

- ❖ 3–7 March 2024
- ❖ 9:00 a.m. to 1:00 p.m.

FEES:

75 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Nujoud AlMutairi - Tel (direct): (+965) 24956486

PURPOSE:

The main aim of the course is to provide a basic understanding of food packaging, biodegradable packaging, production, and their characterization.

OBJECTIVES:

At the end of the course, participants will be able to:

- Understand the basics of food packaging.
- Understand the conventional food packaging materials and the benefits of biodegradable packaging materials and technologies.
- Gain knowledge about the applications of nanotechnology and active packaging.
- Be aware about the sustainable packaging.

INSTRUCTOR(S):

Dr. Jasim Ahmed (ELSRC)

Mr. Hasan Al-Attar (ELSRC)

LOCATION:

Human Resources Development & Conferences Center, KISR

PARTICIPANTS:

Food, nutrition, packaging, environment, polymer scientists/ food, environment regulatory and standards officials/ managers in food, packaging industries/ quality control and assurance personal/ representatives of consumer associations and communication experts.

PREREQUISITES:

Basics of chemistry, microbiology, food science, or nutrition.
Good working knowledge of English.

DATE & TIMINGS:

- ❖ 3-7 March 2024
- ❖ 9:00 a.m. to 2:00 p.m.

FEES:

250 KD - participant inclusive of materials.

Organizations that sponsor more than two participants will be given a 10% discount on course fees.

CONTACT PERSON:

For further information, please contact the Training Section through:
Ms. Shahad Al-Jazzaf - Tel (direct): (+965) 24989095

Candidates are selected based on the Training needs analysis, in reference to the special lists provided by the Candidates, which are done by Career Planning Section in the Human Resources Department, that consists of:

The priority of selection is given to Kuwaiti Candidates that are enlisted in the internal training program.

The selection of the Candidate is based on the training needs priority at first, then the selection continues to Candidates second and then third in priority.

The focus is on technical staff and professionals from the scientific centers and the adjacent supporting technical sectors.

When presenting the unlisted employees nominations in the internal training program, a plausible justification must be provided from centers / sectors that are concerned.

The Candidates must meet the requirements that are already agreed upon.

A Candidate must not enter a course that was attended previously.

The Candidate must be available to attend the course.

That a Candidate is not nominated to attend two courses at the same time (In-house, local, external, online, or an OJT).

A certificate is not given if the Candidate fails to attend at least 80% of the course that he was nominated to attend.

That there is no confliction between the Candidate's attendance and any other commitment (scholarship, annual leave, other).

Contact Us for Further Information

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