

EXCLUSIVE 2 IN 1 TRAINING

Register for the
Training
and entitle a
FREE SEAT
at the
ASIAWATER 2024
Conference!



23rd April 2024



**Kuala Lumpur Convention
Centre (KLCC)**

Kuala Lumpur City Centre, 50088 Kuala
Lumpur, Federal Territory of Kuala Lumpur



9.00 am – 5.00 pm



(EiMAS CPD Applied)

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WATER QUALITY ANALYSIS IN INDUSTRIAL EFFLUENT PERFORMANCE MONITORING

**TS DR FATEHAH
MOHD OMAR**

OVERVIEW: The wastewater treatment system is comprehensively addressed, detailing the functions of its components and their interplay in achieving optimal performance,

whether chemical or biological. The theoretical aspects cover the significance of water quality parameters in supporting plant operation, while data interpretation and efficiency calculations are discussed for monitoring plant performance and troubleshooting any arising problems.

OBJECTIVE:

- 1.To gain a better understanding of the anatomy of the wastewater treatment plant and how it serves the system's performance.
- 2.To understand the theories and how the water quality affects the efficiency of the wastewater treatment system.

FUNDAMENTALS OF SURFACE WATER QUALITY ASSESSMENT

OVERVIEW: In light of rising river pollution and increasing pollution loads, water quality assessment is crucial for catchment planning. Assessment involves diverse areas such as field surveys, sampling, preservation, and laboratory analysis. This course aims to provide participants with a comprehensive understanding of water quality assessment processes to prevent errors, misdiagnosis, and mismanagement.

IR. DR. ZAKI ZAINUDIN

OBJECTIVE:

- 1.To discuss the fundamentals of water quality assessment including field survey, sampling, preservation, laboratory analysis, standards, and regulations.
- 2.To discuss uses of surface water quality modeling tools in water quality management.

TRAINING FEE WITH FREE CONFERENCE SEAT:

- **Member = RM1000**
- **Non-Member = RM1400**
- **New Individual Membership + Training Fee = RM1250**
- **HRDC Claimable + Member = RM1200**
- **HRDC Claimable + Non-Member = RM1500**

Click here to learn
more about
the Conference!



**Environmental Management & Research Association of
Malaysia (ENSEARCH) (Reg: 70/84 WP)**

Lot 10-3, Petaling Utama Avenue, Jalan 1/50, Taman
Petaling Utama, 46150 Petaling Jaya, Selangor

Phone: 03- 7770 9445

Website: www.ensearch.org | Email: po-training@ensearch.org



+603-77709445



po@ensearch.org



www.ensearch.org

TRAINER'S PROFILE

TS DR FATEHAH MOHD OMAR



TS. DR. FATEHAH MOHD OMAR IS AN EXPERT IN WATER AND WASTEWATER TREATMENT, TOGETHER WITH WATER MONITORING. SHE HOLDS A DOCTORAL DEGREE IN ENVIRONMENTAL SCIENCE FROM UNIVERSITY OF GENEVA, SWITZERLAND SINCE 2015. DR FATEHAH IS A VERY ACTIVE RESEARCHER. SHE HAS COMPLETED MORE THAN 20 RESEARCHES, PUBLISHED OVER 50 JOURNALS AND BOOK CHAPTERS. SOME OF THE RESEARCHES ARE, 'THE BEHAVIOUR OF NANOPARTICLE POLLUTANTS IN WATER AND WASTEWATER TREATMENT VIA APPLICATION OF ZETA POTENTIAL AND HYDRODYNAMIC DIAMETER TECHNIQUE STUDY,' THE DISPERSION AND POLLUTANT BEHAVIOR IN RIVER BASINS USING TOTAL MAXIMUM DAILY LOAD (TMDL) APPROACH AND QUAL2K MODELLING , AND MANY MORE.

TENTATIVE PROGRAMME

08.30 – 09.00 REGISTRATION
09.00 – 09.30 WASTEWATER TREATMENT SYSTEM AND ITS FUNCTIONING COMPONENTS
10.00 – 10.30 COFFEE BREAK
10.30 – 11.30 WATER QUALITY PARAMETERS IN THE WASTEWATER TREATMENT PLANT
11.30 – 01.00 DATA INTERPRETATION AND CALCULATIONS, ARISING PROBLEMS AND TROUBLESHOOTING OPTIONS
01.00 – 02.00 LUNCH

TRAINER'S PROFILE

IR. DR. ZAKI ZAINUDIN



DR. ZAKI ZAINUDIN IS A RENOWNED ENVIRONMENTAL IN THE AREA OF WATER QUALITY ASSESSMENT AND MODELING, HAVING LED AND PLAYED KEY ROLES IN HUNDREDS OF ENVIRONMENTAL STUDIES FOR BOTH PRIVATE AND GOVERNMENT SECTORS. HE IS A PROFESSIONAL ENGINEER WITH THE BOARD OF ENGINEERS MALAYSIA (BEM), CHARTERED ENGINEER (CENG) WITH THE ENGINEERING COUNCIL, UK AND CHARTERED ENVIRONMENTALIST. (CENV) WITH THE SOCIETY FOR THE ENVIRONMENT (SOCENV, UK). HE IS OFTEN A SOURCE OF REFERENCE FOR VARIOUS ORGANIZATIONS ON SURFACE WATER QUALITY MANAGEMENT; SUCH AS BEING AN EXPERT PANELIST FOR THE DEPARTMENT OF ENVIRONMENT MALAYSIA (DOE, EIA, WATER AND MARINE UNITS) AND IS ADVISOR TO MANY PROMINENT ENVIRONMENTAL AND ENGINEERING FIRMS. HE HAS CONDUCTED VARIOUS WORKSHOPS AND TALKS ON WATER QUALITY AND MODELING AT BOTH LOCAL AND INTERNATIONAL VENUES. ZAKI IS ALSO ON THE MANAGEMENT COMMITTEE OF THE INTERNATIONAL WATER ASSOCIATION (IWA), WATERSHED AND RIVER BASIN MANAGEMENT (W&RBM) SPECIALIST GROUP.

TENTATIVE PROGRAMME

01.45 – 02.00 REGISTRATION
02.00 – 03.30 THE BASICS OF WATER QUALITY ASSESSMENT; PARAMETERS, STANDARDS, REGULATIONS, TOOLS, EQUIPMENT, MONITORING.
03.30 – 03.45 COFFEE BREAK
03.45 – 05.00 USE OF WATER QUALITY MODELS IN ASSESSMENT AND DECISION MAKING.

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