

WATER QUALITY ANALYSIS IN INDUSTRIAL EFFLUENT PERFORMANCE MONITORING



TS DR FATEHAH MOHD OMAR



9 & 10 MAY 2024

8.00 AM – 5.00 PM



SABAH



OVERVIEW

- **MODULE 1:** This module covers on the wastewater treatment system and the respective functions of each component. Each component is explained on its function and how it supports one another in the system from the inflow till the point of discharge. Two types of wastewater treatment systems are discussed in this module i.e. chemical and biological. In an ideal industrial effluent treatment system, the optimum performance is discussed. The possible problems that could arise and the proposed solutions for troubleshooting are highlighted.
- **MODULE 2:** This module covers on the theoretical part how the information from the water quality parameters serves to support the performance of the wastewater treatment plant. Selected water quality parameters are discussed. Standards and relevant guidelines are briefly discussed.
- **MODULE 3 & 4:** This module covers on the data interpretation and how to calculate to check on the efficiency of the wastewater treatment plant. Further discussion covers the arising problems and troubleshooting options in the wastewater treatment plant.

OBJECTIVES

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

WHO SHOULD ATTEND?

- Water services
- Chemists
- Water Analysts & Water Treatment Plant Operators
- Consultants
- Environmental Professionals

TRAINING FEE:

- Member = RM1300
- Non-Member = RM1600
- New Individual Membership + Training Fee = RM1450
- HRDC Claimable + Member = RM1400
- HRDC Claimable + Non-Member = RM1800
- HRDC Claimable + New Individual Membership + Training Fee = RM1550

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TRAINER'S PROFILE

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

DAY 1

08.30 – 09.00	REGISTRATION
09.00 – 10.00	FIRST MODULE - WASTEWATER TREATMENT SYSTEM AND ITS FUNCTIONING COMPONENTS
10.00 – 10.30	COFFEE BREAK
10.30 – 01.00	FIRST MODULE CONT
01.00 – 02.00	LUNCH
02.00 – 03.15	SECOND MODULE - WATER QUALITY PARAMETERS IN THE WASTEWATER TREATMENT PLANT
03.15 – 03.30	COFFEE BREAK
03.30 – 04.30	SECOND MODULE CONT
04.30 – 05.00	Q&A & CLOSING SESSION

DAY 2

08.30 – 09.00	REGISTRATION
09.00 – 10.00	THIRD MODULE - DATA INTERPRETATION AND CALCULATIONS, ARISING PROBLEMS AND TROUBLESHOOTING OPTIONS
10.00 – 10.30	COFFEE BREAK
10.30 – 01.00	THIRD MODULE CONT
01.00 – 02.00	LUNCH
02.00 – 03.15	FOURTH MODULE - DATA INTERPRETATION AND CALCULATIONS, ARISING PROBLEMS AND TROUBLESHOOTING OPTIONS
03.15 – 03.30	COFFEE BREAK
03.30 – 04.30	FOURTH MODULE CONT
04.30 – 05.00	Q&A & CLOSING SESSION

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