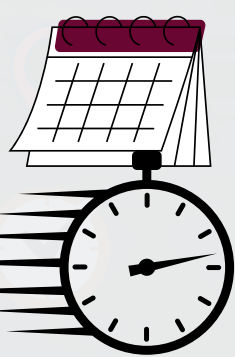


SURFACE WATER QUALITY ASSESSMENT

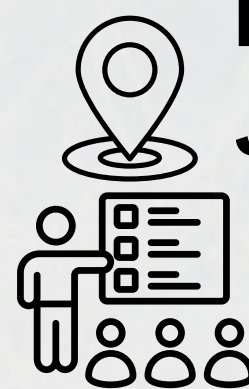


TRAINER :
IR. DR. ZAKI ZAINUDIN



20TH & 21ST JANUARY 2026
TUESDAY & WEDNESDAY

8.30 A.M - 5.00 P.M



**ENSEARCH OFFICE, PETALING
JAYA**

IR. DR. ZAKI ZAINUDIN

OVERVIEW OF TRAINING :

With the advent of river pollution incidences and ever-increasing pollution load, water quality assessment is more important than ever and therefore required in catchment planning. The areas of assessment however, can be diverse and covers many dimensions, from field survey, sampling, preservation and laboratory analysis. Superficial understanding of water quality processes however can lead to errors, misdiagnosis, and mismanagement. The purpose of this course is to enlighten participants to the various components of assessment in the field of water science.

OBJECTIVE OF TRAINING :

- To introduce water quality assessment proceedings from preliminary field survey, sampling, preservation, laboratory analysis, standards, and regulations.
- To discuss physical, chemical and biological water quality parameters and kinetic processes; their derivation, significance and applications.
- To establish pollution load and waste assimilative capacity (WAC) considerations; in synergy with the TMDL philosophy.

WHO SHOULD ATTEND?

- Competent person
- Chemist and laboratory technicians
- Executives & Managers dealing with scheduled waste
- Any person dealing or handling scheduled waste



TRAINING FEE:

- ENSEARCH Member = RM800
- Non-Member = RM1000
- Individual Membership + Training = RM1050
- HRDC Claimable + Member = RM900
- HRDC Claimable + Non Member = RM1000
- HRDC Claimable + Individual Membership = RM1150

Environmental Management & Research Association of Malaysia
(ENSEARCH)

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

Phone: 03- 5887 5809

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

INQUIRIES

Please contact our program secretariat for more training details

 012-2828 910

 po-training@ensearch.org

 www.ensearch.org

**JOIN
NOW**

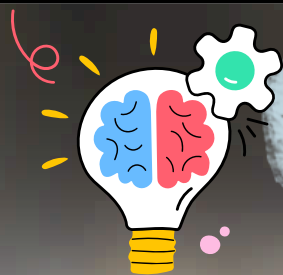
SCAN ME!



TRAINER INFORMATION



Ir. 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

DAY I

08.30 – 09.00AM : REGISTRATION OF PARTICIPANTS

09.00 – 10.15AM : SESSION 1 : INTRODUCTION TO WATER QUALITY STANDARDS, RIVER BASIN MORPHOLOGY, BENEFICIAL USES, WATER QUALITY INDICES, EFFLUENT REGULATIONS.

10.15 – 10.30AM : QUESTION & ANSWER SESSION

10.30 – 10.50AM : COFFEE BREAK

10.50AM – 12.30PM : SESSION 2 : FIELD SURVEY, SAMPLING METHODOLOGY AND GUIDELINES, PRESERVATION, IN-SITU EQUIPMENT, CONDUCTIVITY, FLOW GAUGING, SAFETY CONSIDERATIONS.

12.30 – 12.45PM : QUESTION & ANSWER SESSION

12.45 – 02.00PM : LUNCH BREAK

02.00 – 03.15PM : SESSION 3 : DISSOLVED OXYGEN, DO SATURATION, MEASUREMENT BIOCHEMICAL OXYGEN DEMAND (DEFINITION, MEANING AND ANALYSIS), UBOD, CHEMICAL OXYGEN DEMAND, THOD.

03.15 – 03.30PM : QUESTION & ANSWER SESSION

03.30 – 03.45PM : BREAK

03.45 – 04.40PM : SESSION 4 : SPECIES OF NITROGEN, PHOSPHOROUS, HEAVY METALS AND FECAL COLIFORM.

04.40 – 05.00PM : QUESTION & ANSWER SESSION

05.00PM : END OF DAY 1

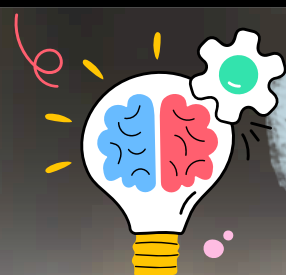
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TENTATIVE PROGRAMME

DAY 2

08.30 – 09.00AM : REGISTRATION OF PARTICIPANTS

09.00 – 10.30AM : *SESSION 5* : POLLUTION LOADING, SIMPLE MIXING MODEL FOR ASSESSMENT, WATER CHEMISTRY, DO BALANCE AND SAG FORMULA, TMDL, WATER QUALITY KINETICS.

10.30 – 10.50AM : COFFEE BREAK

10.50AM – 12.30PM : *SESSION 6* : WATER QUALITY MODELS IN IMPACT ASSESSMENT, CONCEPT, SCENARIO DESIGN, APPROACH, ASSUMPTIONS.

12.45 – 02.00PM : *LUNCH BREAK*

02.00 – 03.30PM : *SESSION 7* : CONTAMINANTS OF EMERGING CONCERN (CECS), CASE STUDIES & DATA ANALYSIS.

03.30 – 03.45PM : *COFFEE BREAK*

03.45 – 04.40PM : *SESSION 8* : CASE STUDIES & DATA ANALYSIS

05.00PM : *END OF TRAINING*

INQUIRIES

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