



Drinking Water Treatment Process with Competency Test

16-18 July 2019

EiMAS CPD HOURS: 18

This training course is brought to you by: **Malaysian Water Academy Sdn Bhd**

Objectives

- ▶ Build a comprehensive awareness of the physical, chemical and biological characteristics of various water sources – rivers, lakes and ground.
- ▶ Learn ways to improve water quality through treatment and management of chemically and biologically polluted waters.
- ▶ Recognize role of water quality guidelines and legislation in water quality management.
- ▶ Examine some practical issues in water quality management from treatment to distribution and to consumer taps.
- ▶ Provide a practical hands-on laboratory testing of water quality and interpreting/analysing the results and steps to remedial and improvement

Course Content

- ▶ Water Resources Management
- ▶ Water Safety Plan
- ▶ Network & Distribution Problem
- ▶ Compliance
- ▶ Water Quality Monitoring System
- ▶ Water Testing & Analysis Equipment
- ▶ Lab Hands - On: Chemical Analysis / Physical Analysis / Microbial Analysis
- ▶ Practical Session - Performing Jar Test
- ▶ Records and Data Reporting



Target Participants:

This course is designed for
Plant Operators, Chemist,
Lab Assistant, Technician,
Operator, and Lab Manager

Trainers:

1. En Sawal Yamon
2. En Samsul Arifin Kadri

Program: 1st Day

TIME	TOPICS
8.30 AM	Registration
9.00 AM	Introduction
9.15 AM	Lecture 1: A Study on Management of Drinking Water Quality
10.15 AM	Tea Break
10.30 AM	Lecture 2: Overview of Malaysia Water Industry Scenario
11.30 AM	Lecture 3: Water Resources Management
12.15 NOON	Lecture 4: Water Safety Plan
1.00 PM	Lunch Break
2.00 PM	Lecture 5: Network & Distribution Problem
3.15 PM	Tea Break
3.30 PM	Practical Session 1: Flocculation & Coagulation – Performing Jar Test
4.45 PM	Quiz for Day 1
5.00 PM	End of Session

Program: 2nd Day

TIME	TOPICS
8.30 AM	Registration
9.00 AM	Review on Day 1 Topics
9.15 AM	Lecture 6: Compliance
10.15 AM	Tea Break
10.30 AM	Lecture 7: A Way Forward in Water Industry
11.00 AM	Lecture 8: Water Quality Monitoring System
11.45 AM	Lab Hands-On 2: Chemical Analysis
1.00 PM	Lunch Break
2.00 PM	Lab Hand-On 3: Physical Analysis
3.15 PM	Tea Break
3.30 PM	Lab Hands-On 4: Microbiological Analysis
3.45 PM	Lab Hands-On 5: Nutrients COD & BOD Analysis
4.00 PM	Lab Hands-On 6: Record and Data Reporting
4.30 PM	Quiz for Day 1
5.00 PM	End of Session



Program: 3rd Day

TIME	TOPICS
8.30 AM	Registration
9.00 AM	Jar Testing: pH, Turbidity, Chlorine Free, Manganese
9.45 AM	Preparation for next batch
10.00 AM	Jar Testing: pH, Turbidity, Chlorine Free, Manganese
10.45 AM	Preparation for next batch
11.00 AM	Jar Testing: pH, Turbidity, Chlorine Free, Manganese
11.45 AM	Preparation for next batch
12.00 NOON	Jar Testing: pH, Turbidity, Chlorine Free, Manganese

Registration Fee

Normal Price

MWA Member: RM1800.00/pax

Non-Member: RM2100.00/pax

Early Bird Price

MWA Member: RM1530.00/pax

Non-Member: RM1785.00/pax

Early bird registration ends on 31 April 2019.

Discounted Price

Register 2 – 4 pax:

MWA Member: RM1620.00/pax

Non-Member: RM1890.00/pax

Register 5 – 9 pax:

MWA Member: RM1530.00/pax

Non-Member: RM1785.00/pax

Register 10 pax and above:

MWA Member: RM1440.00/pax

Non-Member: RM1680.00/pax



Registration Form

NO	NAME	IC NO	DESIGNATION	EMAIL	PHONE

Organization details:

Organization Name & Address: _____

Email: _____

Phone: _____

Payment details:

Enclosed herewith my/our full payment, cheque no. _____ of RM _____ issued to

MALYSIAN WATER ACADEMY SDN BHD Account No. 277 000 23799 (Hong Leong Bank Berhad)



Malaysian Water Academy Sdn Bhd

A registered HRDF Training Provider

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This program is

HRDF Claimable



EiMAS CPD Hours Applied

Supported by

The Malaysian Water Association

