

**REGISTRATION FORM**

Please complete and return this form before 15 JULY 2015 to:

Training Coordinator

No 24, Third Floor, Jalan Sri Hartamas 8, Taman Sri Hartamas,  
50480 Kuala Lumpur.

Tel: 03-6201 1457/1562 Fax: 03-6201 1466 ([hafis@mwa.org.my](mailto:hafis@mwa.org.my))

Summary of Fees	Special Fees	Please tick
COURSE 1: BASIC WATER TREATMENT PLANT DESIGN	RM 520.00	
COURSE 2: ANALYSIS OF PUMPING SYSTEM	RM 290.00	
COURSE 1 & COURSE 2 (Discount if take course 1 & course 2)	RM 790.00	
<b>TOTAL FEES</b>		

Participants	
Name: NRIC: Designation: Mobile: Email:	
Signature:	Date:
Company Details	
Name of Company: Address:	
Tel:	fax:

Enclosed is our cheque, No. \_\_\_\_\_ for RM \_\_\_\_\_ issued in favour "MALAYSIAN WATER ACADEMY SDN BHD"  
**ACCOUNT NO: 277-000-23799 (HONG LEONG BANK BERHAD)**

**BACK BY DEMAND!!!!**  
**Training.....**

**2<sup>nd</sup> Batch**

CPD HOUR PROVIDED
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**TRAINING COURSE**

- 1. BASIC WATER TREATMENT PLANT DESIGN  
(29 JULY 2015)**
- 2. ANALYSIS OF PUMPING SYSTEM  
(30 JULY 2015)**

TIME : COURSE 1 (9.00 a.m – 5.00 p.m)

: COURSE 2 (9.00 a.m – 12.30 p.m)

**COURSE FEES INCLUDE:**

- **GST, Training materials 2 Coffee Break, 1 Lunch (COURSE 1)**
- **GST, Training materials 1 Coffee Break (COURSE 2)**

**VENUE:**

**Malaysian Water Academy Sdn Bhd (Ground Floor)**

**NO 24, Ground Floor, Jalan Sri Hartamas 8**

**Taman Sri Hartamas**

**50480 Kuala Lumpur**

# 1. BASIC WATER TREATMENT PLANT DESIGN

## **INTRODUCTION**

The design of efficient water treatment systems is a complicated task which requires significant engineering experience as well as deep theoretical knowledge of the designers. Usually the task facing an engineer is to determine the levels of treatment that must be achieved and a sequence of methods that can be used to remove the components found in raw water in order to produce safe drinking water according to set standards by the relevant authorities. This task requires the application of scientific knowledge and engineering judgment based on past experience.

## **COURSE OUTLINE**

The objective of the course is to provide beginners water engineers with an overview and understanding of the basic elements of treatment plant design. With this course, it is hoped that the participant will be able to size up the various elements of a water treatment plant to configure the layout.

The course will cover intake, aerator, mixing chamber, flocculation tanks, clarifier and chlorine contact tank. Chemical dosing system shall include lime plant, alum plant, sodium silicofluoride and chlorine plant. The course shall be in the form of worked examples and a mini workshop on the sizing of mixing chamber, flocculation tank, clarifier and filter conducted at the end of the course. A soft copy of the workings of the mini workshop together with the worked examples of the course will be given to each participant.

# 2. ANALYSIS OF PUMPING SYSTEM

## **COURSE OUTLINE**

The objective of this course is to provide participants with the methodology to analyse a pumping system from the hydraulic point of view. The course will cover:

- *Single pipeline pumping system (optimisation analysis)*
- *Parallel pipeline pumping system (combination of new and old pipes)*
- *Pumping to multiple reservoirs*
- *Pumping from high flow and pressure system to reservoir with low demand and low level*

## TRAINERS PROFILE

### **SOH KOK ENG, MIEM, PE, MICE.**

Soh Kok Eng, is currently a Technical Director in SMHB Sdn Bhd, with 34 years of experience in water supply, wastewater and tall building projects, including standard method of measurement. Graduated with BE from University Malaya in 1981, he started work with contracting companies as a site engineer, and subsequently, among the many companies he had worked with were Binnie & Rakan, Juma Construction Sdn Bhd, BI-PMB Waste Management Sdn Bhd, Technical Director in BW Perunding Sdn Bhd from 2002 to 2008 and SMHB from 2008 to date.

*He has vast experience in site supervision, project management and engineering design of water supply. Some recent water projects he's involved in include : Conceptual Engineering Design of 1,000 Mld (Phase 1-4) Sg. Kerian Water Treatment Plant, Water Supply System to Pengerang Integrated Petroleum Complex (PIPC), Johor, Sg Selangor Phase 1 (SSP1) Redistribution Project, Network Modelling for Greater Ipoh Water Supply, Kinta District, Triang Water Supply Scheme, Negeri Sembilan, Stage 2 – Ngoi Ngoi Water Treatment Plant, Langat 2 Water Supply Project, Selangor, Telibong Phase 2 Water Supply Scheme, Sabah, Kuala Jelai Water Supply Scheme, Phase 2 Stage 2.*

Soh Kok Eng is a Co-Author of Malaysian Civil Engineering Standard Method of Measurement (MyCESMM), published by Construction Industry Development Board of Malaysia (CIDB).