

NON-REVENUE WATER (NRW) AND LEAK DETECTION PROGRAM

Non-Revenue Water (NRW) is defined as the difference between supplied water from water treatment plant and billed consumption of all the consumers. Two major components of NRW are Physical Losses and Commercial Losses. Water Losses could be resulted from poor infrastructure or leaking pipes, excessive use or misuse of water, inadequate metering policies etc. Water recovered by reduction of water leakages is a water resource.

Leakage is defined as water which having been obtained from the source and put into a supply and distribution system, is lost via leaks or is allowed to escape or is taken there for a purpose. In most countries, leakage detection has been seen only as small part of water management. Water companies had little incentive to find and repair leaks.

Date: 4 & 5 Dec 2017

Venue:
Malaysian Water
Academy,
Sri Hartamas, KL

COURSE OBJECTIVE

Upon completion of the module the participants should be able to:

1. Define leakage and explain the importance of leakage reduction
2. Describe the various parameters in a Standard Water Balance
3. Explain, with illustrations, the 4 basic elements of leakage management
4. Identify 7 NRW equipment and give a brief account of their uses
5. Describe the steps involved in a leak detection survey
6. List the advantages and disadvantages of DMAs
7. Describe how the Infrastructure Leakage Index (ILI) is calculated

Registration fee:
Member MWA: RM 800
Non-member: RM 900

**REGISTRATION DEADLINE:
30 NOV 2017**

COURSE IS IN COLLABORATION WITH
**PENANG WATER SERVICES
ACADEMY (PWSA)**

**BEM CPD Hours applied
HRDF Claimable**

Malaysian Water Academy Sdn Bhd (MyWA)

NON-REVENUE WATER (NRW) AND LEAK DETECTION PROGRAM

4 & 5 DECEMBER 2017

Malaysian Water Academy Sdn Bhd

24 Jalan Sri Hartamas 8, Taman Sri Hartamas, 50480 Kuala Lumpur

REGISTRATION FORM

(Registration deadline: 30/11/2017)

Fax: 03 6201 5801

Tel: 03 6201 2250 / 03 6021 1457

E-mail: hafis@mwa.org.my (Hafis)

farah@mwa.org.my (Farah)

To: Malaysian Water Academy Sdn Bhd
No. 24, Second Floor, Jalan Sri Hartamas 8
Taman Sri Hartamas, 50480 KUALA LUMPUR

I / We would like to participate in the above.

A. PARTICIPANT DETAILS

1. Name: _____
Designation: _____
E-mail/Phone: _____

2. Name: _____
Designation: _____
E-mail/Phone: _____

Organisation & Address: _____

Tel & Fax: _____

E-mail/Phone: _____

B. PAYMENT DETAILS

Registration Fee/head : RM800 (Member MWA)

: RM 900 (non-Member MWA)

❖ Fees is inclusive GST

Enclose herewith my/our full payment, cheque no. _____

of RM _____ issued to **MALAYSIAN WATER ACADEMY SDN BHD**

Account No: 277 000 23799 (Hong Leong Bank Berhad)

Authorised signature

Date & Org. stamp

Important Notes:

- Full payments are required before the event.
- No refund but substitutes are allowed.