



**ONE DAY TECHNICAL WORKSHOP ON
DAM OPERATIONS & SAFETY MANAGEMENT
23 May 2017, Malaysian Water Academy
Taman Sri Hartamas, Kuala Lumpur**

*Take advantage of this worthwhile training workshop and plan now to attend !!!
BEM CPD Hours applied*

As we are aware, the effect of climate changes has affected the country and dry season are becoming more frequent, resulting in the continued drop in storage dam levels and low river flows. This had brought about water supply shortages in several places in some of the states. It had become a cause of alarm and concern to government and water regulators, water operators as well as consumers. With this in mind, the Malaysian Water Association feels it is timely to organise a workshop at how our water supply dams are managed and operated.

At the same time, many dams in Malaysia were designed and built over 50 years ago. As these structures age, the level of safety becomes more difficult to evaluate, particularly where original design and construction details are not known. In addition, foundation and dam degradation occurs for various reasons and many continue to worsen. Moreover, safety and design standards have changed over the years and many of these aging structures must be upgraded to meet current standards. The workshop will look at some diagnostic monitoring tools and techniques in order to assess the stability and safety of existing dams.

The workshop presents the practical aspects of operations, maintenance and surveillance and emergency management in the context of good practices in dam operations and safety.

It is aimed at dam owners, operators, consultants and regulators to come together and refresh our knowledge and share experiences on the subject of public interest through technical presentations and discussions. The workshop will conclude with an open discussion period.

The workshop facilitators are:

Ir. CHAN CHIANG HENG, a water treatment and dam operations expert who understands the equipment inside a dam and how to operate it, maintain it and troubleshoot it.

Mr. SAIFFUDDIN BIN SHEAFI, whose experience covers all aspects of dams engineering (tailings and water dams) viz. concept to detailed design, dam safety management, operation, project planning and identification, specification and documentation, construction supervision, and quality control.

PROGRAMME	
8:30 AM	Registration & Refreshments
9:30 AM	Workshop – Session 1 Operation of A Water Supply Dam Facilitator: Ir. Chan Chiang Heng Q&A Session
12:30 PM	Lunch
2:00 PM	Workshop – Session 2 Dam Safety Management By Mr. Saiffuddin bin Sheafi Q&A Session
4:30 PM	Tea break & End

CONTENTS

SESSION 1

Operation of A Water Supply Dam

1.0 Dam Classification – On Basic Of Function

2.0 Dam Operation

- 2.1 Familiarisation on relevant & Rules give in the Designers operation maintenance and surveillance manual
- 2.2 Acquisition of Relevant Data related to Weather, River, Dam
- 2.3 Water Quality of Impounded water and Dam Release
- 2.4 Availability of volume from Dam Release between inlets of a Draw off Tower
- 2.5 Volume availability at Variable Depth in Dam
- 2.6 Formulation of contingency Plan for Dam Release.

3.0 Impounder Water Quality

- 3.1 Limnological Survey
- 3.2 Methods on Water Quality Improvement
- 3.3 A case study on Dam Aeration
- 3.4 A case study on Dam Release
- 3.5 Treatment on Dam Water – Direct Abstraction on release to River

4.0 Variable Draw Off Tower

- 4.1 Purpose of its provision
- 4.2 Method of control on variable inlets

5.0 Terms – Active Volume, Dead Volume, Critical Volume and Critical Depth

- 5.1 Elaborate on the significant of terms

SESSION 2

Dam Safety Management

1.0 Introduction

- 1.1 Discuss on historical dam incidents (type of failure, cause and lesson learned)
- 1.2 Responsibility, accountability and liability
- 1.3 What should dam safety program do
- 1.4 Who should be involved
- 1.5 Element of dam safety program

2.0 Surveillance

- 2.1 Introduction
- 2.2 Safety Inspection (frequency, level of details, personnel involved and purpose)
- 2.3 Monitoring & instrumentation
- 2.4 Independent audit

3.0 Safety Review and Remedial Action

- 3.1 Hazard Rating Assessment and its significance to dam safety
- 3.2 How to apply Failure Mode Analysis in Surveillance and dam safety review

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23 May 2017

Malaysian Water Academy

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

REGISTRATION FORM

(registration deadline: 19 May 2017)

Fax: 03 6201 5801

Tel: 03 6201 2250 / 03 6021 1457

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

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: _____

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

Organisation & Address: _____

Tel & Fax: _____

E-mail: _____

B. PAYMENT DETAILS

Registration Fee/head: RM190 (including 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.