



## **GOOD PRACTICES FOR ENHANCING PROCESS SAFETY AND CHEMICAL HANDLING AT WATER TREATMENT PLANT**

**25 - 26 October 2017, Malaysian Water Academy  
Taman Sri Hartamas, Kuala Lumpur.**

The problems associated with the quality, delivery and handling of chemicals at Water Treatment Plants are a worldwide phenomenon. Process operators worldwide place a great emphasis on safety, not only to comply with local and international regulations but also to effectively avoid risks posed in production. However, many people understand safety differently; that affects the actions taken to reduce risk and the performance metrics used.

Some sites focus primarily on enhancing occupational safety, such as preventing falls and slips, while other plants or processes face higher process safety risks, such as explosions or fires in production areas. Both aspects of safety deserve adequate attention and implementation of appropriate risk reduction measures. Contamination of drinking water treatment chemicals, the presence of foreign matter, and delivery problems can affect drinking water quality, treatment plant reliability, regulatory compliance, and residual handling and disposal practices

### **Course Objectives.**

The major objective of process safety management (PSM) of highly hazardous chemicals is to prevent unwanted releases of hazardous chemicals especially into locations that could expose employees and others to serious hazards. An effective process safety management program requires a systematic approach to evaluating the whole chemical process.

Using this approach, the process design, process technology, process changes, operational and maintenance activities and procedures, non-routine activities and procedures, emergency preparedness plans and procedures, training programs, and other elements that affect the process are all considered in the evaluation. Safely managing the chemicals in your workplace is good for business and it is good for everyone! It will improve your employees' safety and health. It will potentially introduce cost savings, through more effective work practices such as correct storage, handling, use and disposal procedures. Potential harm to the environment will also be reduced.

*Take advantage of this worthwhile training workshop and plan now to attend !!!*

*In collaboration with  
ATTC Training Centre*

*BEM CPD Hours applied  
&  
HRDF Claimable*

**COURSE SCHEDULE**

Time	Day 1 / 25 October 2017 (Wednesday)
8.00 am – 10.30 am	<p style="text-align: center;"><b>Overview &amp; Ice Breaking</b></p> <p style="text-align: center;"><b>Module 1- OVERVIEW ON CHEMICAL MANAGEMENT IN MALAYSIA</b></p> <p style="text-align: center;"><b>Topic 1:</b> Introduction to Chemical Handling &amp; Management</p> <p style="text-align: center;"><b>Topic 2:</b> Regulations and Legal Requirements</p> <p style="text-align: center;"><b>Topic 3:</b> Recognizing and Controlling the Risk-Physical &amp; Health Hazards</p>
10.30 am – 11.00 am	<b>Break</b>
11.00 am – 1.00 pm	<p style="text-align: center;"><b>Module 2- SAFE CHEMICAL HANDLING</b></p> <p style="text-align: center;"><b>Topic 4:</b> Planning Chemical Safety-safe Working Procedures</p> <p style="text-align: center;"><b>Topic 5:</b> Procedures for Transport/Storage/Disposal</p> <p style="text-align: center;"><b>Topic 6:</b> Prevention of Accidents &amp; Emergency Procedures</p>
1.00 pm – 2.00 pm	<b>Lunch</b>
2.00 pm – 3.30 pm	<p style="text-align: center;"><b>Module 3 – NEW OSH (Classification, Labeling and Safety Data Sheet of Hazardous Chemicals) CLASS Regulations 2013</b></p> <p style="text-align: center;"><b>Topic 7:</b> Understand the GHS and hazard communication in the workplace</p> <p style="text-align: center;"><b>Topic 8:</b> SDS improves access to vital safety, health, and environmental information about chemicals in the workplace.</p>
3.30 pm – 4.00 pm	<b>Break</b>
4.00 pm – 5.00 pm	<b>Group Activity &amp; CASE Study – Manual Handling Demonstration Assessment</b>

Time	Day 2 / 26 October 2017 (Thursday)
8.00 am – 10.30 am	<p style="text-align: center;"><b>Overview &amp; Ice Breaking</b></p> <p style="text-align: center;"><b>Module 4 – Introduction to Process Safety</b></p> <p style="text-align: center;"><b>Topic 1:</b> In memories</p> <p style="text-align: center;"><b>Topic 2:</b> Hazard in process industries</p> <p style="text-align: center;"><b>Topic 3:</b> Risk &amp; Risk Ranking</p>
10.30 am – 11.00 am	<b>Break</b>
11.00 am – 1.00 pm	<p style="text-align: center;"><b>Module 5: Introduction to Process Safety Management System (PSM)</b></p> <p style="text-align: center;"><b>Topic 4:</b> 14 Elements of Process Safety</p> <p style="text-align: center;"><b>Topic 5:</b> PSM Standards &amp; Regulations</p>
1.00 pm – 2.00 pm	<b>Lunch</b>
2.00 pm – 3.30 pm	<p style="text-align: center;"><b>Module 6: PSM: Process Safety Information &amp; Process Hazard Analysis (PHA).</b></p> <p style="text-align: center;"><b>Topic 6:</b> Process Safety Information (Process &amp; Equipment)</p> <p style="text-align: center;"><b>Topic 7:</b> Hazard and Operability Studies (HAZOP) for review of chemical process designs.</p> <p style="text-align: center;"><b>Group Activity &amp; Case Study – Spills Management at WTP</b></p>
3.30 pm – 4.00 pm	<b>Break</b>
4.00 pm – 5.00 pm	<b>Group Activity &amp; Case Study (Continue) Assessment</b>

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25 – 26 October 2017

Malaysian Water Academy Sdn Bhd

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

REGISTRATION FORM

**(Registration deadline: 20/10/2017)**

Fax: 03 6201 5801

Tel: 03 6201 2250 / 03 6021 1457

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

[farah@mwa.org.my](mailto: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: \_\_\_\_\_

2. Name: \_\_\_\_\_

Designation: \_\_\_\_\_

E-mail: \_\_\_\_\_

Organisation & Address: \_\_\_\_\_

\_\_\_\_\_

Tel & Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**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)**

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Authorised signature

Date & Org. stamp

**Important Notes:**

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