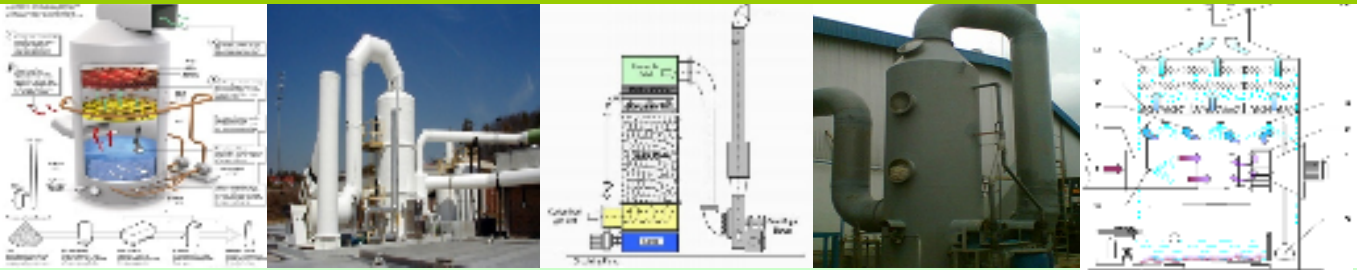




# CePSO

## COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN SCRUBBER OPERATION



### Course Information

BIL	DATE	VENUE
1	28 Jan - 01 Feb 2013	Wisma Masterjaya 20, Jalan Taming 3 Taming Jaya Industrial Park 43000 Seri Kembangan SELANGOR DARUL EHSAN
2	11 - 15 Mar 2013	
3	06 - 10 May 2013	
4	17 - 21 June 2013	
5	26 - 30 Aug 2013	
6	28 Oct - 01 Nov 2013	
7	18 - 22 Dec 2013	

#### Minimum requirement; Candidate must possess

- Diploma or Degree in Science or Engineering; or
- Certificates from polytechnic or SKM with level 2 with 1 year experience; or
- SPM with 3 - 5 years experience.

#### Who should attend;

- Industry personnel who have been given the task to **operate or supervise the operation of scrubbers on industrial premises**

Course Fee : RM4,000.00 per person  
(closing date : A week before course)

Payment should be made prior to attending the course!!

- ✓ Seats Limited to 25 Participants Only!
- ✓ Course Registered With PSMB under SBL scheme!

To ensure continued regulatory compliance, you need **COMPETENT PERSONS** to operate your Scrubbers;  
**'GET YOUR OPERATORS AND SUPERVISORS CERTIFIED THROUGH THE CERTIFICATION PROGRAMME OF THE ENVIRONMENT INSTITUTE OF MALAYSIA !'**

Environment Institute of Malaysia (EIMAS)  
Department of Environment, Ministry of Natural Resources and Environment  
Universiti Kebangsaan Malaysia Campus, Locked Bag No. 24, 43600 UKM Bangi, Selangor, Malaysia.  
Tel: +603-8926 1500 | Fax +603-8926 1700 | <http://www.doe.gov.my/eimas> |

*\*\*The candidates may not be eligible to attend the course if the payment is not been made*

## INTRODUCTION

One of the main air pollution control systems widely used in the industries in Malaysia for the control of gaseous pollutants is scrubbers. To ensure proper operation and continued optimal performance, scrubbers need to be operated or supervised by competent persons

The Environment Institute of Malaysia (EiMAS) has introduced a hands on training program to certify your operators and supervisors as competent persons to supervise the operation of scrubbers.

Through this certification program, your operators and supervisors will be trained to conduct performance monitoring as outlined in the Guidance Document on Performance Monitoring issued by the Department of Environment (DOE).

## COURSE METHODOLOGY

- ❖ Lectures / Discussion;
- ❖ Course Assignment;
- ❖ Hands on training using industry size scrubber installed at E MAS Hands on Air Pollution Control Training Centre.

## BENEFITS OF ATTENDING

This course would enable participants to:

- ❖ **Gain** knowledge and develop skills on how to implement a systematic and effective preventive maintenance and performance monitoring procedure for scrubbers that conforms with the DOE's latest requirement on **performance monitoring** of air pollution control equipment.
- ❖ **Benefit** the industry by minimizing the occurrence of breakdown of scrubbers that may result in non compliance with emission standards.
- ❖ **Be certified and qualified** as a **competent person** to operate and supervise the operation of scrubbers upon passing the examination and submission of field training report.

## OBJECTIVES

- ❖ To impart knowledge and skills to enable operators and supervisors to properly operate scrubbers to ensure compliance with the Clean Air Regulation, 1978 and to help prevent episodes of scrubber failure.
- ❖ To give hands-on training on how to conduct performance monitoring of scrubbers.

## COURSE CONTENTS

### Day 1

#### Introduction to Air Pollution Control System (APCS), Scrubbing System (Class room lecture)

- ❖ Introduction to air pollution control equipment;
- ❖ Introduction to scrubber (Vertical Packed Tower Scrubber);
- ❖ Introduction to equipment associated with Scrubber System;
- ❖ DOE Legal requirement;
- ❖ DOE Certification requirement.

### Day 2

#### Scrubber Principles. (Hands-on training)

- ❖ Introduction to scrubbing systems;
- ❖ Introduction to operating principles of vertical packed tower scrubber;
- ❖ Design of packed tower scrubber.

### Day 3

- ❖ Equipment associated with scrubber systems;
- ❖ Installation & operating instruction;
- ❖ Maintenance of packed tower scrubber.

### Day 4

- ❖ Performance monitoring & record keeping of scrubbers;
- ❖ Scrubber troubleshooting;
- ❖ Field inspection;
- ❖ Case study.

### Day 5

#### Field Training Report and Examination

- ❖ Preparation of Field Training Report;
- ❖ Examination;
- ❖ Closing Ceremony;
- ❖ Presentation of Certificates of Attendance

## ABOUT THE TRAINERS

#### Serafine Woo Hooi Ling

Master Degree of Environmental Engineering  
(M.Sc) – Universiti Putra Malaysia  
(Competent Serial No. : CePSO/5822)

#### Jenn Woo Hooi Dean

Degree of Chemical Engineering  
(B. Eng Hons) – University of Birmingham, UK

#### ANY INQUIRIES PLEASE CALL:

Head of Certification Centre: Mrs. Rusnani Abdullah; [ra@doe.gov.my](mailto:ra@doe.gov.my) or 03 89297619

Coordinator: (empty)

Registrations: (empty)

Examinations (for re-sits applicants) and Results: Mr. Wan Khairuldin Wan Ismail; [khairuldin@doe.gov.my](mailto:khairuldin@doe.gov.my) or 03 89297693

Field Training Report Submission: Mrs. Roslina Abdul Rahim; [ina@doe.gov.my](mailto:ina@doe.gov.my) or 03 89297638

Finance Department: Mrs. Nur Fatimah Yusof; [fatimah@doe.gov.my](mailto:fatimah@doe.gov.my) or 03 89297686



ENVIRONMENT INSTITUTE OF MALAYSIA

EiMAS

Phone : 03-8926 1500

Fax : 03-8926 1700

(Attn. : Secretariat, Competency Centre)

FOR OFFICE USE ONLY

Applicant No:

Empty box for Applicant No.

COURSE APPLICATION FORM

\*EiMAS has the right to reject incomplete application .

1. Course Title

2. Course Date

Course For Certified Environmental Professional In Scrubber Operation (CePSO)

Empty box for Course Date

A. APPLICANT INFORMATION

3. Name (Grid)

4. IC No. (Grid) 5. Age (Grid) years

6. Sex Male Female

7. Nationality Malaysian Others, please specify:

8. Mailing Address: (Grid)

City (Grid)

Postcode (Grid) State (Grid)

9. \*Highest Qualification: SPM Certificate Diploma Sc / B Eng Master

\*Note: Min Qualification is SPM with 3 - 5 years experience (please submit certified true copy of the certificate).

10. Field of Study: Science; or Engineering Experiences of Work (Grid) years

11. Current Position: (Grid)

12. Contacts Tel No (O): H/Phone:

Fax No (O): E-mail:

B. SPONSOR'S INFORMATION

Self-sponsored Company-sponsored

\*To be filled in by company-sponsored only If, company sponsored, do you need an invoice? YES / NO

13. Name of Company / Employer:

14. Company Address for Invoicing Purposes:

15. Contacts Tel No (O): Fax No. (O) :

Person in charge (Finance Department) : E-mail :

16. Type of Industry: (Tick one)

Manufacturing; Mining & Quarrying; Consulting; Others: Specify

**C. PAYMENT INFORMATION**

17. Course Fee Amount: RM 

4	0	0	0
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18. Payment Method: Telegraphic Transfer (TT) :  Money Order :  Bank Draft :   
Cheque :  Cheque No: 

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\* Payment by cheque / bank draft / postal order should be made payable to **PENGARAH INSTITUT ALAM SEKITAR MALAYSIA (EIMAS)** and **received before or on the day of the course registration.**

Official Stamp of Organization:

Date: 

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Signature of sponsor

Date: 

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Signature of applicant

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**TERMS & CONDITIONS**

1. Fees are inclusive of programme materials and refreshments.
2. Payment Terms : Following completion and return of the registration form, full payment is required within five (5) days from the receipt of invoice. PLEASE NOTE : payment must be received prior to the course date. A receipt will be issued on payment. Due to limited course space, EiMAS advise early registration to avoid disappointment.
3. For any reason, EiMAS decides to cancel or postpone this course, EiMAS is not responsible for covering airfare, hotel, or other travel costs incurred by clients. The course fee will not be refunded, but can be credited to a future course. Course programme content is subject to change without notice.
4. Confirmation Details : After receiving payment, a receipt will be issued. If you do not received a letter outlining details, two (2) weeks prior to the event, please contact the course coordinator at EiMAS secretariat.
5. Attachments :
  - a. Please refer course information in the EiMAS brochure or website at [www.doe.gov.my/eimas](http://www.doe.gov.my/eimas) for entry requirement. If the desired course has an entry requirement, please provide the indicated documents as attachment together with the form. All attachments must be CERTIFIED TRUE COPY.
  - b. Applications without the proper documents attached will be rejected.
6. Payment Method :
  - a. EiMAS accept all kind of payment mentioned in the form. Payment should be make prior to the course. The candidates may not be eligible to attend the course if the payment is not been made.
7. You may send the completed application via facsimile or e-mail.
8. Proof of postage is not proof of receipt. EiMAS will not be responsible on any documents lost in transit.

**THANK YOU**