



# CePPOME

## COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONALS IN THE TREATMENT OF PALM OIL MILL EFFLUENT

### Course Information

*\*Organized by ENVIRO ACADEMY, certified training provider by DOE*

| BIL  | *DATE                   | VENUE   |
|--|-------------------------|---|
| 1  | 22-26 February 2021     | Training Centre,<br>Enviro Academy<br>Sdn. Bhd<br>2A & 2B, Jalan<br>Sungai Burung<br>U32/U<br>Bukit Rimau,<br>Seksyen 32<br>40460 Shah Alam<br>SELANGOR |
| 2  | 29 March – 2 April 2021 |   |
| 3  | 5-9 July 2021           |   |
| 4  | 23-27 August 2021       |   |
| 5  | 4-8 October 2021        |   |
| 6  | 29 Nov – 3 Dec 2021     |   |
| APPROVED TRAINING PROVIDER BY HRDF (MYCOID:1002370D) |                         |   |

\*Subject to changes

Payment must be made prior to attending the course!!

The candidates may not be allowed to attend the course if payment is not made before or on the first day of the course

✓ Seats Limited to 25 Participants Only

Course Fee : RM5,000.00 per pax  
Subject to 6% SST  
Closing date : Two weeks before course date



**Minimum entrance requirement:** Candidates must possess a-

- Bachelors degree or higher in Science or Engineering; or
- Diploma in Science or Engineering with 1 year experience in POMETS operation or supervision.

**Who should attend::**

- Mill personnel who are in charge of supervising the operation of Palm Oil Mill Effluent Treatment Systems (POMETS)

To ensure continued regulatory compliance, you need COMPETENT PERSONS to operate or supervise the operation of your POMETS 'GET YOUR POMETS OPERATORS AND SUPERVISORS CERTIFIED THROUGH THE CERTIFICATION PROGRAM OF THE DOE!'

Enviro Academy Sdn Bhd  
2A & 2B, Jalan Sungai Burung U32/U, Bukit Rimau, Seksyen 32  
40460 Shah Alam, SELANGOR, Malaysia.  
Tel: +603-51318032 | Email: registration@enviroacademy.com |

**\*\*The candidates may not be allowed to attend the course if the payment is not made before the course date.**

# INTRODUCTION

The palm oil mills are notorious for generating huge quantities of polluting effluents which need to be treated before disposal. Over the years, various technologies have been developed for the purpose of treating the palm oil mill effluent (POME). POME, a high strength organic effluent is typically treated using a variety of biological treatment systems employing microorganisms as the "work horses". The operation of POME treatment systems (POMETSs) requires knowledge and skills in order to ensure optimal conditions are maintained for the microorganisms to thrive and biodegrade the high concentration of organic matter in the POME. Optimally operated and well maintained POMETSs will produce compliant effluents on a consistent basis hence the mills will be in legal compliance at all times. Effluent treatment systems, especially those employing biological processes such as POMETSs require close attention and monitoring because biological processes are susceptible to upsets due to changes in environmental and process conditions. Trained POMETS personnel who possess the "minds on" and "hands on" qualities are a prerequisite for successful operation of POMETSs that will minimize the adverse environmental impacts resulting from the mill operation.

The "minds on" aspects include sufficient understanding of the relevant regulatory framework and the working concepts of the POME treatment processes. The "hands on" aspects include the skills to monitor the treatment processes and assure the important factors are maintained for optimal treatment process efficiency. As a consequence, compliance with the environmental regulations will be ensured on a sustained basis.

The overall objective of this certified training course is to produce technically competent mill personnel who are also conversant with the regulatory requirements. The certified persons will be the change agents who will mainstream the environmental agenda within the palm oil industry and help to green the industry.

# COURSE CONTENTS

## DAYS 1 and 2

- Module 1 The CePPOMETS process
- Module 2 Understanding the regulatory framework
- Module 3 POME characteristics and impacts of POME discharge
- Module 4 Overview of POME treatment systems
- Module 5 The working concepts of POMETS
- Module 6 Rationale for conducting performance monitoring of POMETS

## DAYS 3 and 4

- Module 7 Performance monitoring of common POMETS
- Module 8 Maintenance of ponding systems
- Module 9 How to control anaerobic digesters

## DAYS 4 and 5

- Module 10 How to control activated sludge systems
- Module 11 POMETS maths
- Module 12 POMETS Performance monitoring laboratory analysis
- Module 13 Data analysis and interpretation
- Module 14 Record keeping, reporting, and communication
- Module 15 Field training report preparation
- Module 16 CePPOMETS: The change agent  
Comprehensive Examination  
Presentation of Certificates of Attendance

# BENEFITS OF ATTENDING

Course attendance is a mandatory prerequisite for the issuance of competency certificate as a competent person under the POMETS certification program

# COURSE METHODOLOGY

- ❖ Lectures / Discussions
- ❖ Class Assignments
- ❖ Hands on Lab and Computer Sessions
- ❖ Field Training Report Assessment

# OBJECTIVES

- ❖ To impart understanding of the environmental regulatory framework on palm oil mill operation to mill personnel;
- ❖ To impart knowledge and develop skills on the conduct of POMETS performance monitoring and evaluation of performance monitoring data;
- ❖ To produce mill personnel who possess both technical competence in POMETS operation and thorough understanding of regulatory requirements

# ABOUT THE TRAINERS

**Ir. Dr. Shamsudin Hj Ab Latif** is a registered chemical engineer who holds a B. Sc. in Chemical Eng. from Leeds University, UK., a M. Eng. In Environmental Eng. from Asian Institute of Technology, Bangkok, Thailand, and a Sc. D in Public Health, from Tulane University New Orleans, USA. Dr. Shamsudin's experience in industrial pollution control spans over 30 years with several technical guidance documents to his credit. While with DOE, he prepared technical drafts of several regulations and he was also instrumental in initiating and developing competency certification programs for the DOE's officers and the industry. Dr. Shamsudin is a certified trainer and a certified training evaluator. He also served as an adjunct professor at several universities in Malaysia. (Competent Person Serial Nos.: CePIETSO-PCP/5099, CePIETSO-BP/5099, CePPOME/5059)

## ANY INQUIRIES PLEASE CONTACT:

**Coordinator & Registration:** Mr. Saiful Islam [registration@enviroacademy.com](mailto:registration@enviroacademy.com) or 0163336347

**Finance :** Mr. Raffles: [registration@enviroacademy.com](mailto:registration@enviroacademy.com) or 0166190238



ENVIRO ACADEMY
Phone: 03-51318032, 0163336347, 0166190238
EMAIL: REGISTRATION@ENVIROACADEMY.COM



COURSE APPLICATION FORM

ENVIRO ACADEMY has the right to reject incomplete applications

1. Course Title

2. Course Date

Course for Certified Environmental Professionals in The Treatment Of Palm Oil Mill Effluent

Empty box for course date

A. APPLICANT INFORMATION

3. Name grid

4. IC No. grid and 5. Age grid years

6. Sex Male Female

7. Nationality Malaysian Others, please specify:

8. Mailing Address: grid

City grid

Postcode grid and State grid

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

\*Note: Minimum Entrance Qualification is Diploma in Science or Engineering with 1 year experience (please submit scanned certified true copy of the certificate).

10. Field of Study: Science; or Engineering Work experience grid years

11. Current Position: grid

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

Fax No (O): grid E-mail: grid

B. SPONSOR'S INFORMATION

Self-sponsored Mill/Company-sponsored \*To be filled out by company-sponsored applicants only

If company sponsored, do you need an invoice? YES / NO

13\*. Name of Mill / Employer: grid

14\*. Mill/Employer Address for Invoicing Purposes: grid

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

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

**C. PAYMENT INFORMATION**

16. Course Fee Amount: RM 

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17. Payment Method: Telegraphic Transfer (TT) :  Bank-in:  Bank Draft :  Cheque :

\* Cheque / bank draft should be made payable to **ENVIRO ACADEMY SDN BHD** and **received before or at the time of course registration on the first day**

\* Our bank account no. is: CIMB 80-0359336-7 (Enviro Academy Sdn Bhd). If payment by bank-in, please provide a scanned copy of the bank-in slip

Official Stamp of Mill/Company:

Signature of Sponsor

Signature of Applicant

Date: 

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**TERMS & CONDITIONS**

1. Fee is inclusive of course materials, lunches, and refreshments
2. Preferably, course application form and scanned copies of related documents to be submitted via email to **registration@enviroacademy.com**
3. Attachments :
  - a. Please provide a scanned CERTIFIED TRUE COPY of the diploma/masters/phD degree as attachment to the application form.
  - b. Applications without the proper documents attached will be rejected
4. Confirmation Details and Payment Terms: Upon receipt of the registration form, ENVIRO ACADEMY will confirm the seat and send an invoice via e-mail to the applicant/company. Payment is required within fourteen (14) days from the receipt of invoice or the latest at the time of registration
5. Payment Method :
  - a. ENVIRO ACADEMY accepts all kinds of payment as mentioned above. Payment should be made prior to the course. The candidates may not be allowed to attend the classes if the payment is not received latest at the time of course registration on the first day
6. Proof of postage is not proof of receipt by the ENVIRO ACADEMY. ENVIRO ACADEMY will not be responsible for any documents lost in transit
7. For any reason, ENVIRO ACADEMY decides to cancel or postpone a particular course, ENVIRO ACADEMY will not be responsible for covering airfare, hotel, or other travel costs incurred by the applicants. The course fee will not be refunded, but can be credited to a future course. Course program content is subject to change without notice.

For any enquires about the course, please contact the course coordinator Mr. Saiful Islam at 0163336347 and Raffles at 0166190238 or [registration@enviroacademy.com](mailto:registration@enviroacademy.com)

**THANK YOU**