





## **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

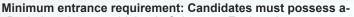
VENUE	*DATE	BIL
	26-30 March 2018	1
Training Centre, Enviro Academy Sdn. Bhd 2A & 2B, Jalan Sungai Burung U32/U Bukit Rimau, Seksyen 32 40460 Shah Alam	23-27 April 2018	2
	25-29 June 2018	3
	16-20 July 2018	4
	22-26 October 2018	5
	17-21 December 2018	6
SELANGOR		

\*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



- 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)

Course Fee : RM5,000.00 per pax Closing date : Two weeks before course

date

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!'

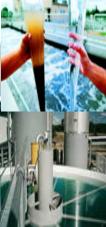
Enviro Academy Sdn Bhd

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Tel: +603-51318032 |Email:saif@enviroacademy.com; raffles@enviroacademy.com |

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### 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 directors

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

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 training evaluator. He also served as an adjunct professor at several universities in Malaysia. (Competent Person Serial Nos.: CePIETSO-PCP/5099) and CePIETSO-BP/5099)

Coordinator & Registration: Mr. Saiful Islam registration@enviroacademy.com or 0163336347

Finance: Mr. Raffles: registration@enviroacademy.com or 0166190238



Person in charge:

(Finance Department)

#### **APPLICATION FORM**

ENVIRO ACADEMY

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

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PAGE 1

**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 A. APPLICANT INFORMATION 3. Name 4. IC No. 5. Age years 6. Sex Female Male 7. Nationality Malaysian Others, please specify: 8. Mailing Address: City Postcode State 9. \*Highest Qualification: Diploma BSc/BEng 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 years 11. Current Position: Tel No (O): 12. Contacts H/Phone: Fax No (O): E-mail: **B. SPONSOR'S INFORMATION** Mill/Company-sponsored Self-sponsored \*To be filled out by company-sponsored applicants only YES / NO If company sponsored, do you need an invoice? 13\*. Name of Mill / Employer: 14\*. Mill/Employer Address for Invoicing Purposes: Tel No (O): Fax No. (O): 15. Contacts

E-mail:

16.	Course Fee : RM <b>5 0 0 0 0</b>				
17.	Payment Method: Telegraphic Transfer (TT): Bank-in: Bank	k Draft : Cheque :			
the * pro	Cheque / bank draft should be made payable to ENVIRO ACADEMY Settime of course registration on the first day  * Our bank account no. is: CIMB 80-0359336-7 (Enviro Academy Sdn Bovide a scanned copy of the bank-in slip				
Off	ficial Stamp of Mill/Company:				
		Signature of Sponsor			
Da	te: 2 0	Signature of Applicant			
TEF	RMS & CONDITIONS				
1. 2.	Fee is inclusive of course materials, lunches, and refreshments  Preferably, course application form and scanned copies of related do  registration@enviroacademy.com	ocuments to be submitted via email to			
3.	Attachments :				
	<ul> <li>Please provide a scanned CERTIFIED TRUE COPY of the diploithe application form.</li> </ul>	ma/masters/phD degree as attachment to			
	b. Applications without the proper documents attached will be reject				
4.	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 :				
	<ul> <li>ENVIRO ACADEMY accepts all kinds of payment as mentioned the course. The candidates may not be allowed to attend the cla at the time of course registration on the first day</li> </ul>				
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 panot be responsible for covering airfare, hotel, or other travel costs incurred				

Page 2

C. PAYMENT INFORMATION

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

not be refunded, but can be credited to a future course. Course program content is subject to change without

**THANK YOU**