



CePIETSO (PCP)
COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONALS
IN THE OPERATION OF INDUSTRIAL EFFLUENT TREATMENT
SYSTEMS
(PHYSICAL CHEMICAL PROCESSES)



DAY 1

- **Module 1**
The Certified Environmental professional in IETS Operation
- **Module 2**
Understanding the Legal Framework
- **Module 3**
Characteristics of Industrial Effluents and Discharge Impacts
- **Module 4**
Overview of Industrial Effluent Treatment Systems

DAY 2

- **Module 5**
Physical Chemical Treatment Processes –The Working Concepts
- **Module 6**
Performance Monitoring of Common Physical Chemical Treatment Processes

DAY 3 and DAY 4

- **Module 7**
Maintenance of PCP Components and Instruments
- **Module 8**
Performance Monitoring Laboratory Session
- **Module 9**
PCP Maths

DAY 5

- **Module 10**
Data Analysis and Interpretation Examination review
- **Module 11**
Record Keeping, Reporting and Communication
- **Module 12**
Field Training Report Preparation
- **Module 13**
You as a CePIETSO, the Driver for Environmental Excellence

DAY 6

- Comprehensive Examination
- Presentation of Certificates of Attendance





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COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONALS
IN THE OPERATION OF INDUSTRIAL EFFLUENT TREATMENT
SYSTEMS
(PHYSICAL CHEMICAL PROCESSES)



About the Trainers

Dato' Dr. Ahmad Kamarul Najuib holds a B. Eng. in Agriculture from Universiti Putra Malaysia, a M.Sc. in Pollution and Env. Control from University of Manchester, UK and a PhD in Environmental Technologies, from Universiti Sains Malaysia. He has over 25 years experience in industrial pollution control and currently Deputy Director General (Development), Department of Environment, Malaysia. Dr. Najuib closely collaborated with Dr. Shamsudin on several training assignments and is a regular trainer at EiMAS on industrial effluent engineering and air pollution control engineering. Dr. Najuib is a certified trainer and a certified training evaluator.

(Competent Person Serial Nos.: CePIETSO-PCP/5289 and CePIETSO-BP/5299)

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 and CePIETSO-BP/5099)

Mr.Chan Boon Chew who holds a BSc. Degree from Campbell University, USA is a competent person in both (BP) and (PCP). (Competent Person SerialNos.: CePIETSO(PCP)/00017 and CePIETSO(BP)/00072)

Course Fee : RM5,000.00 per pax
(closing date for registration: two weeks before course)

Payment must be made prior to attending the course!!

Seats Limited to 25 participants only!



ANY INQUIRIES PLEASE CONTACT:

Coordinator : Mr. Saiful Islam:
saif@enviroacademy.com or
0163336347

Registration : Mr. Saiful Islam:
saif@enviroacademy.com or
0163336347

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



**TRAINING PROGRAMS/ COMPETENCY COURSE
FOR INDUSTRIES ON WATER POLLUTION
CONTROL SYSTEM**



**2. Course For Certified Environmental Professional
in the Operation Of Industrial Effluent Treatment
Systems (Biological Processes)-CePIETSO-BP**



CePIETSO-BP COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONALS IN THE OPERATION OF INDUSTRIAL EFFLUENT TREATMENT SYSTEMS (BIOLOGICAL PROCESSES)

Introduction

The success of the operation of an IETS is primarily in the hands of the operator. A knowledgeable and skilled operator or supervisor knows how to monitor the processes occurring in his IETS, positive corporate image, but avoid possibility of factory downtime and hefty monetary penalties due to legal actions from the environmental authority.

The industries must pay great attention to the training of their staff in the proper operation and maintenance of the IETS. EIMAS is providing a training program to train your IETS operators and supervisor to be competent in operating IETS particularly in conducting performance monitoring of the IETS components. The competent operator or supervisor will ensure that the IETS is operating optimally.

This unique training course which focuses on hands-on approach is in fact the only one of its kind in Malaysia. A Certificate of Competency will be awarded to participants who successfully completes the course, passes the examination and submits a field training report.

Successful operation of an IETS is an integral part of the operation of a successful industry. A trained and skilled IETS operator or supervisor is not anymore a luxury but rather a must-have to the industry. Good environmental performance not only portray

Understands what factors affect the IETS performance, knows what operational conditions are best for his IETS and how to maintain them, knows how to respond to upset conditions, understands the social obligations and legal implications for non-compliance.

Minimum Entry Requirement

Candidate must possess a:

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

Benefits of Attending

Course attendance is a mandatory prerequisite for the competency certification program for IETS operators and supervisors

Course Methodology

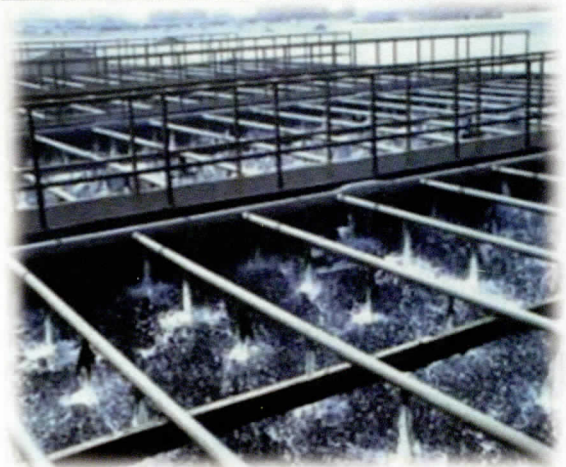
Lectures / Discussion
Course Assignment
Practical Training at INSTEP' IETS Training Center
Hands on Lab Sessions
Objectives

Objectives

- **To impart** knowledge to the IETS operators and supervisors on the importance of performance monitoring;
- **To develop** skill on the conduct of IETS performance monitoring and evaluation of performance monitoring data.

Who Should Attend

- Responsible person to be in charge of the operation of an IETS at their work premise;
- Supervisors of IETS.





CePIETSO-BP
COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONALS
IN THE OPERATION OF INDUSTRIAL EFFLUENT TREATMENT
SYSTEMS
(BIOLOGICAL PROCESSES)

Course Contents

DAY 1

- **Module 1**
The Certified Environmental Professional in IETS Operation
- **Module 2**
Understanding the Legal Framework
- **Module 3**
Characteristics of Industrial Effluents and Discharge Impacts
- **Module 4**
Overview of Industrial Effluent Treatment Systems

DAY 2

- **Module 5**
Overview Biological Treatment Processes
- **Module 6**
Rationale for Conducting Performance Monitoring of IETS
- **Module 7**
Performance Monitoring of Common Biological Treatment Processes - The Working Concept
- **Module 10**
How to Control Biological Treatment Processes
- **Module 11**
Performance Monitoring Laboratory Session

DAY 3 and DAY 4

- **Module 8**
Maintenance of BP Components and Instruments
Module 9BP Maths

DAY 5

- **Module 12**
Data Analysis and Interpretation
- **Module 13**
Record Keeping, Reporting and Communication
- **Module 14**
Field Training Report Preparation
Examination review

DAY 6

- Comprehensive Examination
- Presentation of Certificate of Attendance





CePIETSO-BP
COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONALS
IN THE OPERATION OF INDUSTRIAL EFFLUENT TREATMENT
SYSTEMS
(BIOLOGICAL PROCESSES)

About the Trainers

Hj. Ahmad Jafree Bin Salleh;

Principal Instructor (Process) from Institut Teknologi Petroleum PETRONAS (INSTEPS) holds a B Sc. In Chemical Engineering from Lamar University, Beaumont, Texas, USA. One of the Competent Person in CePIETSO (BP) in 2012. (Competent SerialNo.:CePIETSO(BP)/00101) Member of CIPD, United Kingdom.

Course Fee

•RM5,000.00 per person

Closing Date

•One month before course.

Participation

•Seats Limited to 25 Participants Only!;
Course Registered With PSMB under SBL scheme!



ANY INQUIRIES PLEASE CONTACT:

Program Manager : Mr. Razak M Sapiah; razak_msapiah@petronas.com.my or 09-668 6173

Coordinator : Mr. Ahmad Yusuf b Hussain; yusuf.hussain@petronas.com.my or 09-668 6226

Registrations: Mrs. Ruslina Sapie ; ruslina.sapie@petronas.com.my or 09-668 6225



**TRAINING PROGRAMS/ COMPETENCY COURSE
FOR INDUSTRIES ON WATER POLLUTION
CONTROL SYSTEM**



10/04/2008

10/04/2008

**3.Course For Certified Environmental Professional in
the Treatment Of Palm Oil Mill Effluent-CePPOME**



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



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 (POMETs) 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 POMETs 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 POMETs 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 POMETs 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

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



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



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

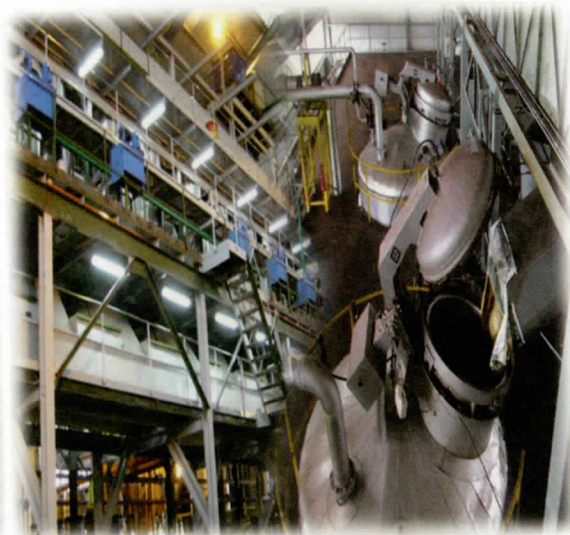
Field training report preparation

Module 16

CePPOMETS: The change agent

DAY 6

- ✓ Comprehensive Examination
- ✓ Presentation of Certificates of Attendance





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



About the Trainers

Dato' Dr. Ahmad Kamarul Najuib holds a B. Eng. in Agriculture from Universiti Putra Malaysia, a M.Sc. in Pollution and Env. Control from University of Manchester, UK and a PhD in Environmental Technologies, from Universiti Sains Malaysia. He has over 25 years experience in industrial pollution control and currently Deputy Director General (Development), Department of Environment, Malaysia. Dr. Najuib closely collaborated with Dr. Shamsudin on several training assignments and is a regular trainer at EiMAS on industrial effluent engineering and air pollution control engineering. Dr. Najuib is a certified trainer and a certified training evaluator.

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(Competent Person SerialNos.: CePIETSO-PCP/5099 and CePIETSO-BP/5099)

Who should attend::

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



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.

**Seats Limited to 25
Participants Only**

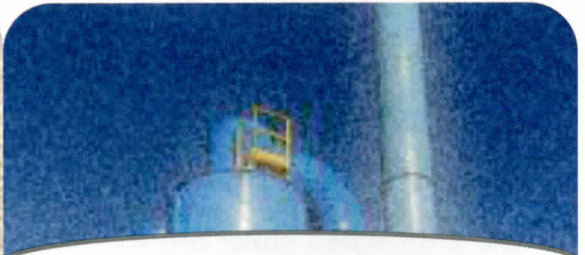
**Course Fee :
RM5,000.00 per pax
Closing date : Two
weeks before course
date**

ANY INQUIRIES PLEASE CONTACT:

Coordinator : Mr. Saiful Islam: saif@enviroacademy.com or 0163336347

Registration : Mr. Saiful Islam: saif@enviroacademy.com or 0163336347

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



**TRAINING PROGRAMS/ COMPETENCY COURSE
FOR INDUSTRIES ON AIR POLLUTION CONTROL
SYSTEM**



**4. Course For Certified Environmental Professional
in Bag Filters Operation- CePBFO**



CePBFO

COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN BAG FILTERS OPERATION

INTRODUCTION

One of the main air pollution control system widely used in the industries in Malaysia for the control of dust pollutant is bag filter. The success operation of a Bag Filter Dust Collector is primarily in the hands of the operator. A knowledgeable and skilled operator, supervisor or engineer knows how to monitor the processes occurring in his bag filter, understands what factors affect the bag filter performance, knows what operational conditions are best for his bag filter and how to maintain them, knows how to respond to upset conditions, understands the social obligations and legal implications for non-compliance.

Successful operation of a bag filter is an integral part of the operation of a successful industry. A trained and skilled bag filter operator, supervisor or engineer is not anymore a luxury but rather a must-have to the industry. Good environmental performance not only portray positive corporate image, but avoid possibility of factory downtime and hefty monetary penalties due to legal actions from the environmental authority. EiMAS is providing a training program to train your bag filter operators, supervisor and engineer to be competent in operating bag filter particularly in conducting performance monitoring of the bag filter. The competent person will ensure that the bag filter is operating optimally.

This unique training course which focuses on hands-on approach is in fact the only one of its kind in Malaysia. A Certificate of Competency will be awarded to participants who successfully completes the course, passes the examination and submits a field training report.

WHO SHOULD ATTEND

Industry personnel who have been given the task to operate or supervise the operation of bag filters on industrial premises.

OBJECTIVE

To provide knowledge and skills in :

- ✓ Effective bag filter preventive maintenance and performance monitoring
- ✓ Proper bag filter operation to ensure smooth production
- ✓ Compliance to DOE legal requirement

BENEFITS OF ATTENDING :

- ✓ Benefit the industry by ensuring smooth and uninterrupted operation of bag filter system.
- ✓ Benefit the industry by minimizing unnecessary plant shutdown due to non-compliance with emission standards.
- ✓ Compliance to DOE Regulations. Be certified and qualified by DOE as a competent person to operate and supervise bag filter operation.

MINIMUM ENTRY REQUIREMENT

Candidate must possess:

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

FOR FURTHER INFORMATION, KINDLY CONTACT:

**MASTER JAYA GREENTECH SDN. BHD. (830211-W)
WISMA MASTER JAYA, 20, JALAN TAMING 3, TAMING JAYA INDUSTRIAL PARK, 43300 SERI
KEMBANGAN, SELANGOR, MALAYSIA.**

**Tel : 03-8962 6233 ; 017-292 6978 (HAFIZAH) | Fax : 03-8962 6211 | E-MAIL :
training@masterjaya.com.my**

WEBSITE : <http://www.masterjaya.com.my> Or <http://www.doe.gov.my/eimas>



COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN BAG FILTERS OPERATION

COURSE CONTENTS

Day 1

- # Introduction of Air Pollution Control System (APCS)
- # Introduction of bag filter dust collector (shaker cleaning, pulse-jet cleaning and reverse air cleaning)
- # Introduction to dust collector components

Day 2

- # Dust Collector Component (Hands-on training)
- # Fan introduction
- # DOE legal requirement

Day 3

- # Operating instruction
- # Preventive maintenance
- # Performance monitoring & Record keeping as per DOE requirement

Day 4

- # Hands-on performance monitoring
- # Bag filter common operating problems and troubleshooting
- # Case study
- # Field training report preparation

Day 5

- # Examination
- # Presentation of Certificates of Attendance



COURSE METHODOLOGY

- o Lectures
- o Class assignment
- o Hands on practical training using industry size bag filter at our Hands on Air Pollution Control Training Center.
- o Group discussion



CePBFO

COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN BAG FILTERS OPERATION

ABOUT THE TRAINER

Ir. A.K. Woo

A Registered Professional Engineer with the Board of Engineers Malaysia and a Chartered Engineer with the Engineering Council of United Kingdom. He is also a Registered Asean Engineer. He is the Founder & Managing Director of MASTER JAYA Group of Companies (since 1983) and he has more than 30 years of practical industrial experience in Industrial Ventilation, Industrial Air Handling and Air Pollution Control in almost all types of processes and industries.

He has presented numerous technical papers in Air Pollution Control to the Department of Environment Malaysia, various trade organizations and manufacturing & process industries and has conducted numerous training courses on Industrial Air Pollution Control to the industrial and Government sectors.

Serafin Woo Hooi Ling

Holds a B. Eng. Hons Degree in Mechanical Engineering from University of Sheffield, UK and M. Sc. in Environmental Engineering from University Putra Malaysia. She has obtained extensive knowledge and practical experience in the industrial air pollution control industry over the past 15 years working in the industry in Malaysia & in the Asean countries. Her areas of expertise include training, consulting, designing, manufacturing, installation, testing & commissioning of bag filter dust collector, cyclones, scrubbers, oil mist filters, odour control system, local exhaust ventilation, ducting, chimneys & fans. She has conducted several seminars and training courses on Air Pollution Control for DOE officers and industries. With all the hands-on experience, Serafin managed to explain and present complex air pollution control knowledge with simple and easily understood methodologies.

She has been closely collaborating with DOE & EIMAS on developing competency certification modules for the DOE's officers and the industry. (Competency Serial No. : CEPBFO/5822 and CEPPO/5822)

COURSE FEE

RM4,000.00 per person (including course materials, refreshment, lunch, certificate)

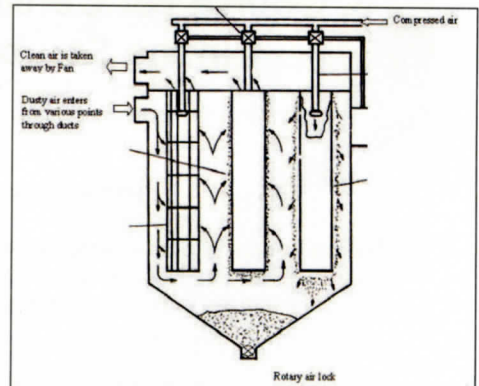
Full Payment must be settled 7 days before commencement of training

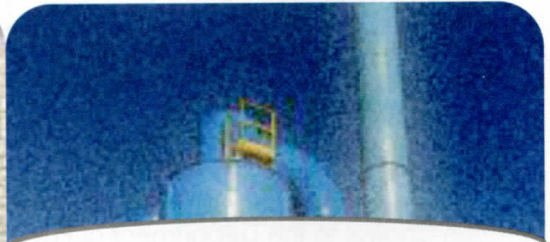
COURSE REGISTRATION

Closing date : 2 weeks before course

SEATS

Seats limited to 25 participants only!





**TRAINING PROGRAMS/ COMPETENCY COURSE
FOR INDUSTRIES ON AIR POLLUTION CONTROL
SYSTEM**



**5. Course For Certified Environmental Professional
in the Scrubber Operation - CePSO**

CePSO COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN SCRUBBER OPERATION



INTRODUCTION

One of the main air pollution control system widely used in the industries in Malaysia for the control of gaseous pollutant is scrubber. The success operation of a scrubber is primarily in the hands of the operator.

A knowledgeable and skilled operator, supervisor or engineer knows how to monitor the processes occurring in his scrubber, understands what factors affect the bag filter performance, knows what operational conditions are best for his scrubber and how to maintain them, knows how to respond to upset conditions, understands the social obligations and legal implications for noncompliance. Successful operation of a scrubber is an integral part of the operation of a successful industry.

A trained and skilled scrubber operator, supervisor or engineer is not anymore a luxury but rather a must-have to the industry. Good environmental performance not only portray positive corporate image, but avoid possibility of factory downtime and hefty monetary penalties due to legal actions from the environmental authority. EIMAS is providing a training program to train your scrubber operators, supervisor and engineer to be competent in operating scrubber particularly in conducting performance monitoring of the scrubber. The competent person will ensure that the scrubber is operating optimally.

This unique training course which focuses on hands-on approach is in fact the only one of its kind in Malaysia. A Certificate of Competency will be awarded to participants who successfully completes the course, passes the examination and submits a field training report.



OBJECTIVE

To provide knowledge and skills in :

- o Effective scrubber preventive maintenance and performance monitoring
- o Proper scrubber operation to ensure smooth production
- o Compliance to DOE legal requirement

BENEFITS OF ATTENDING

- o Benefit the industry by ensuring smooth and uninterrupted operation of scrubber system
- o Benefit the industry by minimizing unnecessary plant shutdown due to non-compliance with emission standards.
- o Compliance to DOE Regulations. Be certified and qualified by DOE as a competent person to operate and supervise scrubber operation

MINIMUM ENTRY REQUIREMENT

Candidate must possess:

- o Diploma or Degree in Science or Engineering; or
- o Certificates from polytechnic or SKM with level 2 with 1 year experience; or
- o 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.

**CePSO
COURSE FOR CERTIFIED
ENVIRONMENTAL
PROFESSIONAL IN SCRUBBER
OPERATION**



COURSE CONTENTS

Day 1

- # Introduction of Air Pollution Control System (APCS)
- # Introduction to scrubber (various types of scrubber)
- # Introduction to scrubber components
- # DOE legal requirement

Day 2

- # Scrubber Components (Hands-on training)
- # Fan introduction

Day 3

- # Operating instruction
- # Preventive maintenance
- # Performance monitoring & Record keeping as per DOE requirement

Day 4

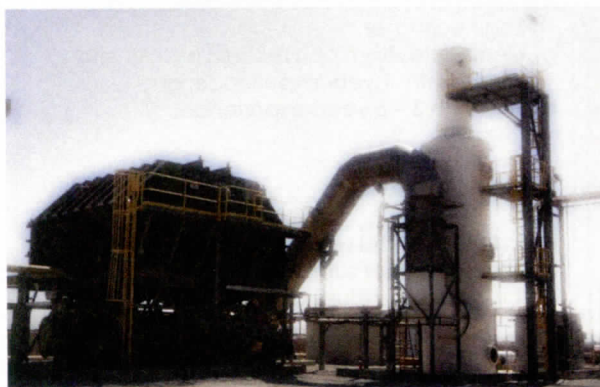
- # Hands-on performance monitoring
- # Scrubber common operating problems and troubleshooting
- # Case study
- # Field training report preparation

Day 5

- # Examination
- # Presentation of Certificates of Attendance

COURSE METHODOLOGY

- o Lectures
- o Class assignment
- o Hands on practical training using industry size scrubber at our Hands on Air Pollution Control Training Center.
- o Group discussion



**CePSO
COURSE FOR CERTIFIED
ENVIRONMENTAL
PROFESSIONAL IN SCRUBBER
OPERATION**



COURSE FEE

- ❖ RM4,000.00 per person (including course materials, refreshment, lunch, certificate)
- ❖ Full Payment must be settled 7 days before commencement of training

COURSE REGISTRATION

Closing date : 2 weeks before course

SEATS

Seats limited to 25 participants only!



ABOUT THE TRAINER

Ir. A.K. Woo - is a Registered Professional Engineer with the Board of Engineers Malaysia and a Chartered Engineer with the Engineering Council of United Kingdom. He is also a Registered Asean Engineer. He is the Founder & Managing Director of MASTER JAYA Group of Companies (since 1983) and he has more than 30 years of practical industrial experience in Industrial Ventilation, Industrial Air Handling and Air Pollution Control in almost all types of processes and industries.

He has presented numerous technical papers in Air Pollution Control to the Department of Environment Malaysia, various trade organizations and manufacturing & process industries and has conducted numerous training courses on Industrial Air Pollution Control to the industrial and Government sectors.

Serafin Woo Hooi Ling - holds a B. Eng. Hons Degree in Mechanical Engineering from University of Sheffield, UK and M. Sc. in Environmental Engineering from University Putra Malaysia. She has obtained extensive knowledge and practical experience in the industrial air pollution control industry over the past 15 years working in the industry in Malaysia & in the Asean countries. Her areas of expertise include training, consulting, designing, manufacturing, installation, testing & commissioning of bag filter dust collector, cyclones, scrubbers, oil mist filters, odour control system, local exhaust ventilation, ducting, chimneys & fans. She has conducted several seminars and training courses on Air Pollution Control for DOE officers and industries. With all the hands-on experience, Serafin managed to explain and present complex air pollution control knowledge with simple and easily understood methodologies.

She has been closely collaborating with DOE & EiMAS on developing competency certification modules for the DOE's officers and the industry. (Competency Serial No. : CEPBFO/5822 and CEPPO/5822)



**TRAINING PROGRAMS/ COMPETENCY COURSE
FOR INDUSTRIES ON SCHEDULES WASTES
MANAGEMENT**





CePSWAM COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN SCHEDULED WASTE MANAGEMENT

INTRODUCTION

Scheduled wastes are by nature **very toxic and dangerous**. Improper management of such wastes will lead to serious pollution of the environment and the ecosystem as well as immediate /long term impacts to human health. Managing scheduled wastes require a comprehensive understanding of regulatory framework, waste properties, waste management concepts, and accepted good management practices. Airwastewater Management Sdn Bhd is providing a training program to train your personnel who are involved in managing scheduled wastes to be **competent in their job function**. The competent person will ensure that scheduled wastes in your premise are managed and handled properly in accordance with the **legal requirements**.

This **unique** training course which focuses on **hands-on approach** is in fact the only one of its kind in Malaysia. A Certificate of Competency will be awarded to participant who successfully completes the course, pass the examinations and submits a field training report.

MINIMUM ENTRY REQUIREMENT

Candidate must possess a:

- ✓ Diploma or Degree in Science or Engineering; or
- ✓ Certificates from polytechnic or SKM with level 2; or
- ✓ Diploma or Degree in others discipline other than Science in Engineering with 1 year experience.

WHO SHOULD ATTEND

- Managers / supervisors who are involved in managing toxic and hazardous waste (scheduled waste) at industrial facilities.

OBJECTIVES

At the completion of this course, the participants would be able to:

- ✓ Explain the legal requirements on scheduled waste management;
- ✓ Identify, classify and categorize scheduled wastes;
- ✓ Implement sound and effective scheduled waste management practices;
- ✓ Formulate an implementation plan for full compliances with the regulatory requirements of the Environmental Quality (Scheduled Wastes) Regulations, 2005

COURSE METHODOLOGY

- ✓ Lectures
- ✓ Hands on training sessions on identification, classification, labeling and storage
- ✓ Course assignments
- ✓ Group discussions





CePSWAM COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN SCHEDULED WASTE MANAGEMENT

COURSE CONTENTS

DAY 1

Overview of Scheduled Waste Management.

- Introduction to Scheduled Waste Management;
- Concept of Cradle to Grave;
- Waste Management Hierarchy;
- Characteristics of Scheduled Wastes.

Identification, Classification and Properties of Scheduled Wastes

- Definition;
- Hazardous waste characteristics and properties;
- Chemistry of toxic and hazardous wastes;
- Identification of hazardous wastes;
- Basic properties of hazardous wastes;
- Classification of hazardous wastes.

Introduction to Scheduled Waste Legislations and Policies

- Environmental Quality (Scheduled Wastes) Regulations 2005;
- Provision in Section 34 B, Environmental Quality Act, 1974;
- Environment Quality (Prescribed Conveyance) (Scheduled Wastes) Order 2005.

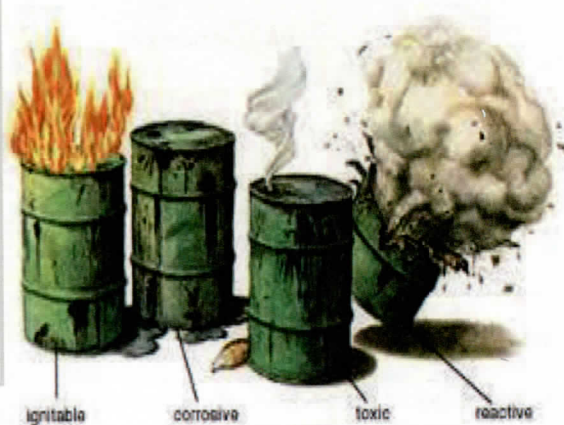
DAY 2

At the completion of this course, the participants would be able to:

- Explain the legal requirements on scheduled waste management;
- Identify, classify and categorize scheduled wastes;
- Implement sound and effective scheduled waste management practices;
- Formulate an implementation plan for full compliances with the regulatory requirements of the Environmental Quality (Scheduled Wastes) Regulations, 2005

Lectures

- Hands on training sessions on identification, classification, labeling and storage
- Course assignments
- Group discussions





CePSWAM

COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN SCHEDULED WASTE MANAGEMENT

...continued

DAY 3

Storage, Packaging and Labelling of Scheduled Wastes

- Present situation;
- Sorting & segregation procedures;
- Storage – technical and operating requirement;
- Packaging and labelling procedure.

Scheduled Waste Facilities and Licensing Procedures

- Types of Scheduled Waste Management Facilities (Prescribed Premises);
- Pre requisite for Licensing – EIA requirement for premises, Written Permission for Construction;
- Licensing Procedures;
- Treatment and Disposal Technology and Facilities;
- Operation of Recovery Facilities, Incineration and Secure Landfill;
- Treatment and Disposal Technology and Facilities,
- Incineration and Secure Landfill, Laboratory and Waste Analysis.

Options for Disposal & Treatment Technology

- Resource recovery, treatment and disposal methodologies;
- Treatment processes and disposal facilities;
- Waste minimization techniques and recycling options.

International Convention

- Introduction and protocol of Basel Convention;
- Transboundary Movement of Scheduled Waste;
- Standard procedure for Import and Export of Scheduled Waste;
- Application for Scheduled Wastes Import and Export.

Environment Quality (Prescribed Premises) (Scheduled Waste)

DAY 4

Environment Quality (Prescribed Premises) (Scheduled Treatment and Disposal Facilities) Order 1989;

Practical Handling of Storage, Handling, Transportation and Disposal of Scheduled Waste

- Environmental Quality (Prescribed Activities) (Environmental Wastes Treatment and Disposal Facilities) Regulations 1989;
- Practices of good packaging, labelling and storage;
- Understanding methods of safe handling, transportation and disposal
- Environmental Impact Assessment Order 1989- prescribed activity for scheduled wastes;

Current practices in scheduled waste management;

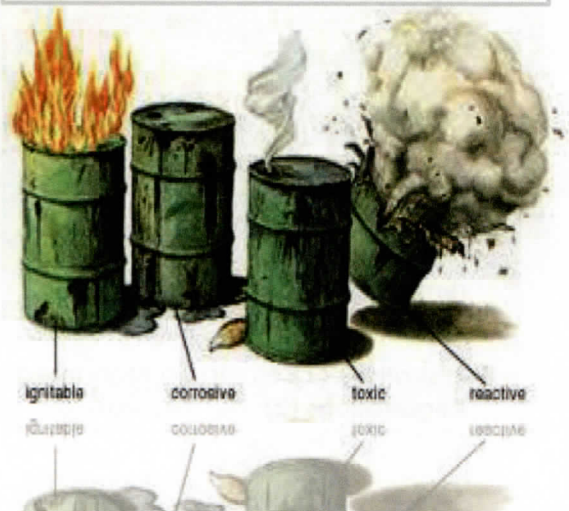
Record Keeping & Reporting Requirements

- Waste notification;
- Waste inventory;
- Consignment Note.

DAY 5

Practical and Written Examinations

- Closing; and
- Presentation of Certificates of Attendance





CePSWAM COURSE FOR CERTIFIED ENVIRONMENTAL PROFESSIONAL IN SCHEDULED WASTE MANAGEMENT

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Course Fee : **RM3,300.00 per person**
(Closing date : 14 days before the course started)

Seats limited to 35 participants only



Payment should be made prior to attending the course!!

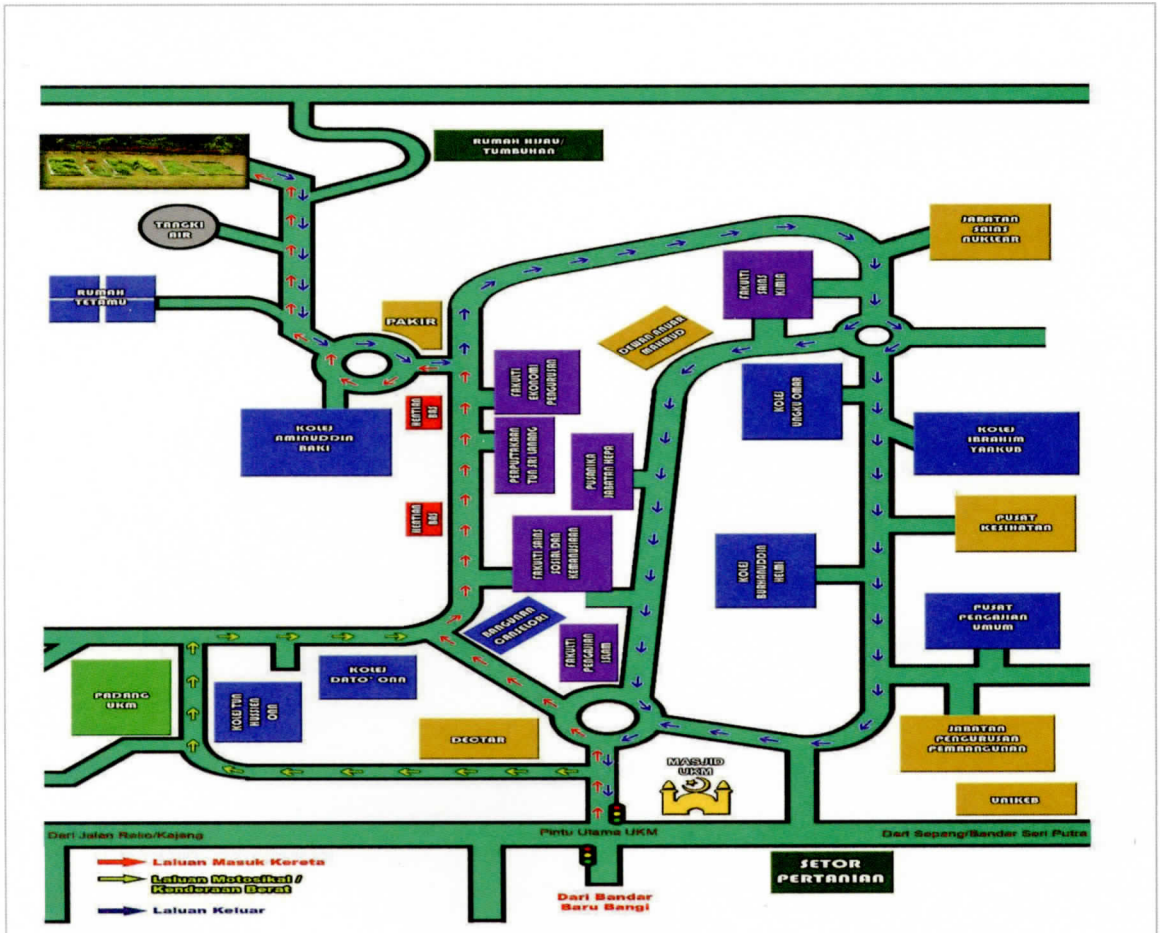


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Map to Environment Institute Of Malaysia (EiMAS)



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