CERTIFIED ENVIRONMENTAL PROFESSIONAL COURSES

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MTC TECHNICAL SEMINAR
KUALA LUMPUR
ENVIRONMENT INSTITUTE OF MALAYSIA (EIMAS), BANGI, SELANGOR
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INTRODUCTION

1. The Environmental Quality Act, 1974 was enacted to prevent, abate, control pollution and enhance the environment for the purposes connected therewith.

2. The emphasis is on prevention which is specially directed to the industries.

3. The concept of prevention taken by DOE is through self regulation.

4. The mechanism used is through developing certification courses to train competent persons in the industrial sector.

5. Competent persons are responsible to:
   (a) operate a control equipment.
   (b) manage scheduled waste in their premises.
   (c) conduct of studies
   (d) prepare and submit reports, plans, proposals, engineering drawing or other documents relating to environmental matters.
The principal Act is amended by inserting after section 49 the following sections:

“Competent person”

49a. (1) An owner or occupier of a premise shall employ a person who has been certified by the Director General as a competent person to conduct all or any of the following activities:

(a) the operation of a control equipment;
(b) the management of scheduled wastes;
(c) the conduct of studies;
(d) the preparation and submission of reports, plans, proposals, engineering drawings or other documents relating to environmental matters.

(2) The reports, plans, proposals, engineering drawings or other documents relating to environmental matters referred to in paragraph (1)(d) shall be prepared and submitted by the competent person to the Director General.
10. (1) The operation of an industrial effluent treatment system shall be supervised by a competent person.

(2) A competent person shall be any person who has been certified by the Director General that he is duly qualified to supervise the operation of an industrial effluent system.

(3) An owner or occupier of a premise shall ensure that a competent person is on duty at any time the industrial effluent treatment system is in operation.
6. (1) The operation of a sewage treatment system shall be supervised by a competent person.

(2) A competent person shall be any person who has been certified by the Director General that he is duly qualified to supervise the operation of a sewage treatment system.

(3) An owner or occupier of a premise shall ensure that a competent person is on duty at any time the sewage treatment system is in operation.
7. (4) The operation of the air pollution control system shall be supervised by a competent person who shall be on duty at all times during the operation of the air pollution control system.
COMPETENCY COURSES FOR INDUSTRIES

- Course For Certified Environmental Professional in Bag Filters – CePBFO
- Course For Certified Environmental Professional in the Scrubber Operation – CePSO
- Course For Certified Environmental Professional in Scheduled Waste Management – CePSWAM
- Course For Certified Environmental Professional in the Operation of Industrial Effluent Treatment Systems (Physical Chemical Processes) – CePIETSO-PCP
- Course For Certified Environmental Professional in the Operation of Industrial Effluent Treatment Systems (Biological Processes) – CePIETSO-BP
- Course For Certified Environmental Professional in the Treatment of Palm Oil Mill Effluent – CePPOME
- Course For Certified Environmental Professional in Sewage Treatment Plant Operation - CePSTPO
PHOTOS TAKEN DURING COURSE
CEPBFO
CEPBFO

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

COURSE METHODOLOGY
• Lectures
• Class assignment
• Hands on practical training using industry size bag filter at our Hands on Air Pollution Control Training Center.
• Group discussion
WHO SHOULD ATTEND

- Industry personnel who are in charge of
- the operation, supervision & maintenance of
- the bag filter dust collector at industrial facilities.

ENTRY 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 to 5 years
COURSE CONTENTS

Day 1
· Introduction of Air Pollution Control System (APCS)
· Introduction of bag filter dust collector (shaker cleaning, pulsejet 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
PHOTOS TAKEN DURING COURSE
CEPSO
CEPSO

OBJECTIVE

• To provide knowledge and skills in:
  • Effective scrubber preventive maintenance and performance monitoring
  • Proper scrubber operation to ensure smooth production
  • Compliance to DOE legal requirement

COURSE METHODOLOGY

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

WHO SHOULD ATTEND

• Industry personnel who are in charge of the operation, supervision & maintenance of
• the scrubber at industrial facilities.

ENTRY 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 to 5 years
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
PHOTOS TAKEN DURING COURSE
CEPSWAM
CEPSWAM

Objective

• 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 waste;
  ❖ Implement sound and effective scheduled waste management practices;
  ❖ Formulate an implementation plan for full compliance with the regulatory and requirements of the Environmental Quality (Scheduled Wastes Regulations, 2005

Course Methodology

• Lectures
• Hands on training session on identification, labeling and storage
• Course assignment
• Group discussion
CEPSWAM

Who Should Attend

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

Entry Requirement

• Diploma or Degree in Science or Engineering; or
• Diploma or Degree in other discipline with 1 year experience; or
• Certificates from polytechnic or SKM with level 3; or
• SPM with 3 years experience handling scheduled waste.
COURSE CONTENTS

DAY 1

• **Scheduled Waste Management**
  - Introduction to Scheduled Waste Management
  - Concept of Cradle to Grave
  - Waste Hierarchy
  - Characteristics of Scheduled Wastes

• **Introduction to Scheduled Waste Legislations and Policy**
  - Environmental Quality (Scheduled Wastes) Regulations 2005
  - Provision in Section 34 B, Environmental Quality Act, 1974
  - Application of Poison Act and Pesticide Act to the Scheduled Waste Management
  - Environment Quality (Prescribed Conveyance) (Scheduled Wastes) Order 2005;
  - Environment Quality (Prescribed Premises) (Scheduled Waste Treatment and Disposal Facilities) Order 1989
  - Environment Quality (Prescribed Premises) (Scheduled Wastes Treatment and Disposal Facilities) Regulations 1989
  - Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) Order 1989
COURSE CONTENTS

DAY 2

• Scheduled Waste Facilities and Licensing Procedure
  - 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.
• Report Keeping & Reporting Requirement
  - Waste notification;
  - Waste inventory;
  - Consignment Note.
• Storage, Packaging and Labelling of Scheduled Waste
  - Present situation;
  - Sorting & segregation procedures;
  - Storage – technical and operating requirement;
  - Packaging and labelling procedure
DAY 3

- Case Studies and Discussion (I) on Scheduled Waste Legislation and Policy

- 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.

- Option for Disposal & Treatment Technology
  - Resource recovery, treatment and disposal methodologies;
  - Treatment processes and disposal facilities;
  - Waste minimization techniques and recycling options.

- Identification, Classification and Properties of Scheduled Waste
  - Definition;
  - Hazardous waste characteristics and properties;
  - Chemistry of toxic and hazardous wastes;
  - Identification of hazardous waste;
  - Basic properties of hazardous waste;
  - Classification of hazardous waste.
COURSE CONTENTS

DAY 4

• Application e-consignment Note
  - Objective of e-consignment note;
  - Scope;
  - Objective of e-consignment note.

• PRACTICAL HANDLING

• Storage, Handling, Transportation and Disposal of Scheduled Waste
  - Practices of good packaging, labelling and storage;
  - Understanding methods of safe handling, transportation and disposal of scheduled wastes;
  - Current practices in scheduled waste management;
  - Emergency response and preparedness.

• REVIEW COURSE
PHOTOS TAKEN DURING COURSE
CEPIETSO-BP
PHOTOS TAKEN DURING COURSE CEPIETSO-PCP
CERTIFICATION PROGRAMME FLOW CHART

- 5 days course + 1 day exam.
- Will get attendance certificate.
- If pass the exam, will get Competent Certificate (valid for 1 year)

Training Course

Field Training Report (FTR)
- Using 6 month of data.
- Time given: 1 year starting from getting exam result.

Interview
- Interview by Certification Panel.
- Pass the interview, then will get full Competent Certificate
ASSESSMENT FORMAT

Final Exam 70%
Assignment 30%
Theory

- Final Exam 70%
- Assignment 30%

100 Objective questions

Practical
- Lab session

Passing mark: 70%
Field Training Report (FTR)

- Equipment
- Organization Chart
- Environmental Policy
- Job Description
- Performance Monitoring Committee
- IETS Description & Flowchart
- Record Keeping/Logsheet
- PM Parameter
- Control Chart
- Upset & Corrective Action

FTR CONTENT
Next Step After Certification

- Once a person is certified as competent, he/she will be issued a certificate of competency and his/her name will be automatically registered in the National Registry of Certified Environmental Professionals. (NRCEP)

- NRCEP administered by EiMAS.

- The person’s name and other particulars will be posted on DOE’s website at www.doe.gov.my
Continuing Professional Development

• CPD stands for Continuing Professional Development. It is a commitment by Competent Person to continually update their skills and knowledge in order to remain professionally competent and achieve their true potential.

Under the National Registry of Certified Environmental Professionals (NRCEP) Scheme, all Competent Persons certified by Director General of Department of Environment Malaysia are required to collect a minimum of 50 CPD hours per year. Please refer to EiMAS latest Guidelines for further information.
CPD Hours Contribution

Structured Training Courses

Related Study

Mainstreaming of Environmental Management

Conventions, seminars, workshops, talks, technical visits, etc.

Conduct of Training

CPD (50hr/year)
ETHICS OF A COMPETENT PERSON

Has a high degree of obligations in:

- morality
- responsibility
- professional knowledge and conduct
- personal honor
- integrity
SUMMARY

• Everyone is involved in the success of environmental management.
• DOE through EiMAS conducts competency courses for industries.
COMPETENCY AND INDUSTRIAL CERTIFICATION CENTRE
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http://www.doe.gov.my/eimas
THANK YOU