

Training Title

AIR EMISSION

Training Duration

5 days

Training Dates & Venue

REF					
ME092	Air Emission	5	15-19 April	\$4,250	Dubai, UAE

Training will be held at any of the 5 star hotels. The exact venue will be informed once finalized.

Training Fees

- 4,250 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This course has been designed to provide training on essential components of emission. This course includes discussing various area like emission sources, type of emissions and emission control. This course highlights the causes of Air pollution, needs of clear human being and industrial operation. Also point out the importance of environment protection, and the hazards of greenhouse gases.

TRAINING OBJECTIVES:

- Understand emission sources like, Flares, Boiler and Gas turbines,
- Understand various parameters of emissions.
- Understand the concept Hydro carbon industry and various pollution sources
- Understand combustion reaction, flue gas analysis and combustion control.
- Monitoring and control process equipments to reduce emission pollution
- Identify various air pollutants, it impact on environment and its control.
- Explain Atmospheric pollution, acid rain and green house effects.

WHO SHOULD ATTEND?

- Trainee operators, field Operators, station Operators, Control Room Operators, Production/ process Supervisors. Process and maintenance technicians.

TRAINING METHODOLOGY

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. The delegates will also be encouraged to raise their own questions and to share in the development of the right answers using their own analysis and experiences.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

COURSE OUT LINE:

Day-1

Registration, Welcome, Introduction

1. Hydro Carbon Basics

- a. Hydro Carbon Fundamentals
- b. Hydro Carbon Properties – Physical and Chemical
- c. Crude oil – properties
- d. Natural gas – properties

Hydrocarbon chemistry - physical and chemical properties, boiling point, vapour pressure, density, heat, viscosity, chemical reaction, combustion. Impact of properties in chemical reaction and process operation.

Combustion reaction – Basic elements, chemical reaction, temperature, oxygen requirement, actual oxygen available, excess air requirement, Flue gas, flue gas analysis. Rapid combustion, factors affecting combustion, incomplete combustion. Combustion control.

Day -2

1. Emission

Definition, emission sources, emission from Boiler, Gas Turbine, IC engines, Flare.

Air Pollution – source, clean air, compressed air, types of pollutants. Sources of pollutants

Air pollution control – Types of control, particulate matter and its control, control of gaseous pollutants.

Day 3

1. Emission control – factors affecting emission, components, emission control, Hydrocarbon control, CO control NO_x control, excess oxygen control, Sulfur control. Emission standards.
2. Corrosion in chimneys- various types of corrosion, Impact of temperature, corrosion prevention.
3. Atmospheric pollution – Acid rain, destruction of Ozone layer and Green house effect

Case Histories– Flexiboro and Bhopal disasters, reasons.

Assessment and Certificate distribution.

TRAINING OUTCOME

Up on finishing the course candidates are able to explain emission standard in their working environment, various sources of emission and pollution to environment operation in Hydrocarbon industry.

Understand importance of Environment protection as part of their social and work responsibility to maintain a healthy emission standard in their working environment.

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.



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