Environment and Sustainability Training Programs Series

Master Class on Integrated Air Quality Management

Designed to meet the capacity building needs of industries, infrastructure facilities and air quality management professionals

Five modules
Ten hours
Five assignments

Chola MS
RISK SERVICES

Cholamandalam MS Risk Services Ltd,
Parry House, 4th Floor, No.2, NSC Bose Road,
Chennai, Tamil Nadu
+91(44) 3044 5620-30, inquiry@cholams.murugappa.com

A member of
INOGEN®
https://www.inogenet.com/
Global Thinking
Local Delivery

Due to growing regulatory needs and also social pressure, industries are seeking validated methods and procedures to demonstrate compliance with the National Air Quality Standards in complex industrial facilities.

Module 1: Fundamentals of air quality management for business leaders and managers

Basic concepts of air quality management, definitions and applicable regulations and guidelines, interpreting the regulations and standards, methods for estimating contingent liabilities associated with non-compliance, few case studies of directions issued under Section 5 EP Act and NGT Orders and key take ways, what are the responsibilities of various stakeholders in implementing Air quality management, Air quality management as a part of SDG gaols and corporate governance and associated benefits to industry, defining maturity of air quality management in the facility based on 10 point indicator system and group exercise.

Module 2: Essentials of air quality management program

360 Degree approach (source-media-receptor), how to define site specific air quality management programs and indicators, how to conduct air quality management audits, how to integrate air quality management into organization's ISO 14001:2015 (risk and LCA based approach), group exercise on linking air quality management goals with organization's Balanced Score Card (BSC).

Module 3: Emission control and Management

Emission inventory development (continuous, intermittent and fugitive sources), published emission factors, fundamentals of emission control strategies (all phases such as planning, design and selection), few concepts of RACT, MACT and BACT with examples, overview of current emission regulations and sector specific control technologies adopted, air pollution control technology selection tool, five principles of air pollution control system design, a master troubleshooting chart for air pollution control systems (PM, SO_2, NOx and VOC control), APC performance DASH board for managers and plant heads, predictive monitoring of APC systems based on big data.

Chola ◆ MS
RISK SERVICES

A member of
INOGEN

Module 4: Essentials of Air Quality Monitoring Programs

Fundamentals of air quality monitoring requirements, types and methods of air quality monitoring programs, air quality monitoring technologies, CPCB guidelines, IS codes, data interpretation and reporting, pollutant roses, methods for calibration of continuous ambient air quality monitoring systems, round robin tests, methods for validation of air quality data, common errors and challenges in undertaking air quality monitoring programs and Standard Operating Procedures etc.,

Module 5: Application of Air Quality Modelling tools for Diagnosing Air Pollution Episodes

Importance of meteorological information, fundamentals of atmospheric physics, flue gas characteristics and influence on plume behaviour, fundamentals of pollutant dispersion, approved models and tools for estimating ground level concentration, inputs to air pollutant dispersion modelling, interpretation of air quality modelling data, methods for correlating emissions and measured ambient air quality data, methods for evaluating and diagnosing air pollution episodes and developing air quality management DASH boards