



ONLINE TRAINING PROGRAMME ON

UNDERSTANDING REAL TIME MONITORING FOR INDUSTRIES AND ITS AUDIT METHODOLOGY

Course Date 17- 30 September, 2020 | Last Date to Apply 1 september, 2020 | Course Duration Two weeks 20 Hours (10 hours per week)

BACKGROUND

Installation of online real-time monitoring systems used for emission monitoring and effluent quality monitoring, in industries, were mandated by Central Pollution Control Board (CPCB) in 17 categories of highly polluting industries (classified under highly polluting industries) and for common pollution treatment facilities. The purpose of mandating real-time monitoring is to strengthen the monitoring and compliance mechanism in the industries and also to promote the measurement of real-time data, which is to become the basis for regulators to check compliance by the industries in near future. In addition to this, these systems can also help industrial sectors/regulators in process optimization and taking timely corrective measures. Since real-time monitoring are complex and expensive technologies, there are significant challenges and risks associated with their implementation. Therefore, thorough knowledge and skills that are relevant to real-time monitoring regimes become crucial factors for industries, regulators and other stakeholders.

LEARNING OUTCOMES

- Introduction and objective of CEMS and CEQMS audit
- PM CEMS Technologies and its assessment
- Gaseous CEMS Technologies and its assessment
- CEQMS Technologies and its assessment
- Assessment of location of CEMS and CEQMS installation and related aspects
- Operation, Maintenance and Calibration practices for PM, Gaseous CEMS and CEQMS
- How to develop CEMS and CEQMS audit questionnaire
- Data acquisition, handling, reporting and Data interpretation

Furthermore, in order to ensure proper implementation, auditing of these real-time technologies is an essential factor in improving the systems already installed in the industries. So this programme will also lay focus on audit methodology, which ensures correct implementation of the real time monitoring of emissions and effluent in an industry, to check whether stated standards and other regulatory requirements are being followed, status of facility's compliance, certification, verification, accreditation of the system, technical acceptance through calibration, quality assurance, generating accurate, reliable and traceable data and other related aspects.

Centre for Science and Environment (CSE) recognizes this need and announces an online course on **"Understanding Real-time Monitoring for Industries and its Audit Methodology"** for environment professionals.

This course will be conducted online through technological learning tools such as technical discussion with experts, recorded sessions from experts, presentations, videos and reading material.

WHO CAN APPLY?

Industry Professionals, Environmental laboratories professionals, Regulatory bodies, Academic institutions, Consultancies, Researchers Instrument Manufacturers and other interested participants.

COURSE FEE

Indian participants **Rs 3500 per Participant** Overseas participants **USD 100**

COURSE LINK

<https://www.cseindia.org/online-training-programme-on-understanding-real-time-monitoring-10270>

COURSE COORDINATOR

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