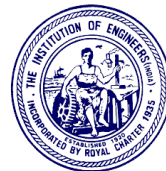




Engineering Staff College of India

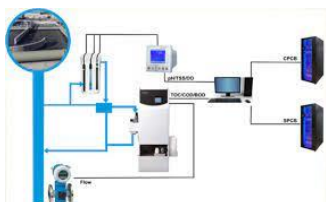
Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. Telangana, India



Environment Management Division

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME

Online Monitoring Industrial Emission Effluent (Technical Guidelines and Demonstration)



07-09 February 2024

Interactive Sessions | Digital Learning | Assessments | 24/7 Experts Online/Offline Support

Introduction

With rapid industrialisation, there is a need to regulate industries consistently and at the same time minimising inspections of industries. Therefore, efforts have been made through technological interventions to bring self-discipline in the industries to exercise self-monitoring & compliance and transmit data of effluent and emission to SPCBs/PCCs and to CPCB on continuous basis. This need for strategic shift in the method of enforcement of industrial pollution control was also necessitated by increasing demand for human/financial resources for many new activities.

Chemicals (Pharmaceuticals, Organic/Inorganic, Fertilizers, Oil Refineries and Pesticides), Distilleries, Sugar, Pulp & Paper, Textile, Dying, Bleaching, Slaughter Houses, Tannery, Food & Dairy and other categories of industries have been discharging effluent directly or indirectly into the river and its tributaries through drains, thereby causing deterioration of water quality of rivers and its tributaries. For strengthening the monitoring and compliance through self-regulatory mechanism, online emission and effluent monitoring systems need to be installed in all the industries with high pollution potential and operated by the developers and industries. Since, it is expected to be a huge network, thereby as prescribed in Environment Policy 2006, 'Polluter Pays Principle' has been applied.

In recent years, online water quality monitoring technology has received attention and interest in context of providing accurate and continuous water/waste water quality information. Technological developments have been continuing for improving these systems. Developments of Indigenous systems have started in the country in view of continuous requirements and consistent policies of Government. This training programme would develop the knowledge base and skills of environmental professionals on the concepts and aspects of online monitoring and continuous emission monitoring system (CEMS).

Objectives

- Understanding on online monitoring system, effluent guidelines and their standards
- Understanding of "Real time monitoring/ or continuous emission monitoring system" and its importance.
- Understanding the operation and management aspects of online monitoring systems, including troubleshooting
- Understanding on technical guidelines and technical knowledge and practical experience on suitable device selection, correct installation, operation & maintenance, data transmission, inspection and compliance check.
- Understanding on Status of CEMS implementation and challenges in implementation.

Course Coverage

This programme is designed to cover broadly the following topics :

- Overview of Online Monitoring Systems- Parameters (physical, chemical and biological), Analysers (Sensitivity, reliability, performance, calibration etc.), Data Transfer (data acquisition, storage, transmission system, data display etc.) and Compliance Check
- Standards and guidelines of effluents of major sectors like –Cement, iron and steel, fertilizers, power plants industries etc.

(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

- Technical guidelines for installing and operating continuous emission monitoring systems (CEMS) and "Online Continuous Emission/Effluent Monitoring Systems (OCEMS)"
- Basics of CEMS and CEQMS equipment's, technologies, installation and history
- Checklist preparation for inspection of CEMS and CEQMS installations and course correction for proper implementation.
- Selection of suitable technology, correct installation, data handling etc.
- Equipment demonstration and field visit for hands on experience.

Methodology

Methodology of the programme includes class room Sessions with Lectures/discussions, with audio visual aid; bench - marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc. All the sessions will be interactive, demanding active participation from all the participants.

Target Participants

Environmental engineers, control and instrumentation engineers, senior chemist, process and environmental manager, PCBs, Stakeholders related to cement, iron and steel, fertilizers, power plants industries.

Programme Dates, Timings & Prog. Code

Dates: 07-09 February 2023, **Timings:** 10:00 AM onwards. **Prog. Code:** EM 6087.

Course Director

Ms. Anita Aggarwal

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Old Bombay Road, Gachi Bowli, Hyderabad 500 032
Phone: Direct 040 6630 4120 to 4122 / Fax: 040-66304163
Mob: 8374362306 / Email: em@escihyd.org

Faculty/Speaker Details

Apart from the core internal faculty of ESCI, experienced professionals, sector experts from regulatory boards and authorities, consultants involved in online monitoring system and subject specialists will be the faculty for this programme.

Course Fee

- **Residential Fee** – Rs. 16,000/- (Rupees Sixteen Thousand only) per participant. Fee includes course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme. ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- **Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants
- **Group Incentive:** 10% discount for five or more participants, if sponsored by the same Organization

GST @ 18% is to be paid extra over and above the training fee. PAN Card No AAATT3439Q; Service Tax Registration No AAATT3439QST008. Our GSTN No. 36AAATT3439Q1ZV

Programme fee is to be paid in favour of “**IE(I)-Engineering Staff College of India**” in the form of demand draft payable at Hyderabad.

Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by NEFT/ RTGS/ IFSC Code No. SBIN 0004159 – MICR No.500002075. While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.

Registration

Online registration shall be available on ESCI **web portal** : www.escihyd.org. **To register manually** please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to : **Course Director. Or Contact us at : Mr. GNM. Rao (Prog. Manager) – 9866431555.**

A Certificate of participation will be awarded to each participant on conclusion of the programme.

Environment Management, Engineering Staff College of India

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