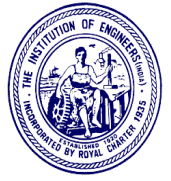




Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500032, T.S, India



QUALITY & PRODUCTIVITY DIVISION

Continuing Professional Development Program on

Power Plant Chemistry

05 – 07 August, 2019



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

Centre for Promotion of Professional Excellence

INTRODUCTION

Water and steam are the lifeblood of any steam-driven power facility, and proper chemistry control is critically important to plant operation, reliability, the bottom line, and especially personnel safety.

Water quality control within power plants maintains the operational efficiency and minimizes plant downtime caused by corrosion or preventative maintenance. It also allows turbine supplier warranties to remain applicable. The integrity of the components is affected by the constant contact of the water and steam with metal surfaces, which creates corrosion and scaling. You need smart instrumentation for analysis, allowing you to prevent such situations and avoid expensive repairs. This 3-days course is meant to raise awareness about the significance of chemistry in a power plant. The program aims to explain the elementary chemical background as well as to sensitize the participants on possible causes of errors during operation of water treatment plants.

OBJECTIVES

This training program is designed to provide with a strong understanding of the various water treatment applications and chemistries within a power plant and enable the participants to:

- optimize the chemistry-related aspects in their facilities
- react correctly in case of a chemistry-related alarms
- identify areas for improvement of operating practices

COVERAGE

- Understanding the basic Properties of Water and Steam
- Introduction to advances in Power Plant Chemistry
- Modern water treatment practices
- Chemistry of the water-steam cycle – Guide lines for H P and Supercritical Boilers
- Production of de mineralized water
- Pre & post operation chemical cleaning management
- Water Chemistry for supercritical plant
- Corrosion Causes and Effects
- Condenser Corrosion Control in a Power Plant
- Steam Chemistry Control and Guidelines
- Power Plant Water Treatment Systems

METHODOLOGY

The program will be conducted in an interactive environment providing scope for discussions. Emphasis will be on a highly participative style of learning through lectures, group discussions etc.

TARGET PARTICIPANTS

The course is appropriate for anyone that is interested in increasing their knowledge of water treatment and its impact on power plant performance.

Power Engineers and Managers from Power Utilities, Captive Power Plants, Power Generating Companies Independent Power Projects Associated with planning, Design, Construction, Operation & Maintenance, Manufacturers. Technologist Engineering, QC/QA Managers/ Repair & Maintenance Engineer of Boiler Manufacturing, Academics, Consultancy organization.

The course also addresses a wide audience, including operators, power plant chemists, plant operation or maintenance engineers, consultants, technical project managers.

PROGRAMME VENUE, DATES & TIMINGS

Venue: Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032. Telangana State, India.

Dates: 05 - 07 August, 2019 (3 Days)

Timings: On the first day Registration will commence at 0900 hrs. On all other days the program timings will be from 0945 - 1715 hrs with breaks in between for tea and lunch.

COURSE ADVISOR

Sri A Chandra Mohana Rao, Head - Power & Energy Division – Engineering Staff College of India

COURSE DIRECTOR

Sri D Sheshadri - Head – Quality & Productivity Division, Engineering Staff College of India

FACULTY

Apart from core internal faculty, experts from industry, consulting firms, government organizations, academic and research institutions and others will share the sessions.

COURSE FEE

Rs.15,000/- (Residential) + 18% GST. Fee includes course material, course kit and twin-sharing / single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training program.

GROUP DISCOUNT: 10% discount for three or more participants, if sponsored by the same organization.

NON RESIDENTIAL DISCOUNT: 10% discount will be allowed if participant is non residential.

GSTIN: 36AAATT3439Q1ZV

PAN Card No. AAATT3439Q.

MODE OF PAYMENT:

Program 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. 912010049234564** with **Axis Bank Ltd., Gachibowli branch**, Old Mumbai Highway, Cyberhills Colony, P Janardhan Reddy Nagar, Gachibowli, Hyderabad – 500032, T.S., by **NEFT/ RTGS/ IFSC Code No. UTIB0000733 – MICR No.500211020**.

While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and program title.

REGISTRATION

Online registration shall be available on ESCI website.

To register manually, please send your nominations giving details of name, designation, contact address, email address, mobile, telephone and fax number of the participant along with the details of mode of payment of fee and addressed to:

The Head

Quality & Productivity Division

Engineering Staff College of India

GachiBowli, **Hyderabad – 500032** (Telangana State)

Phones : 040 – 66304133, 4132, 4110, 4109, 4108 / Fax : 040 – 30995226

Mobile: 9866114616, Email: qp@escihyd.org Website: www.escihyd.org

CERTIFICATE

A certificate of participation will be awarded on conclusion of the program.

GENERAL INFORMATION

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in at 1200 hrs.) and one day after conclusion (Check-out at 1200 hrs.) of the program duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participants.