



Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachibowli, Hyderabad – 500 032. TS, India



MANAGEMENT & TECHNOLOGY DIVISION

Continuing Professional Development Programme on

Industrial Instrumentation & Modern Control System
(For operations, maintenance & allied services who are directly or indirectly connected with instruments & control)

02 - 05 January 2018

Engineers convert Dream in to reality



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

Centre for Promotion of Professional Excellence

INTRODUCTION:

Today's competitive Global environment challenges all aspect of the business. To stay ahead, the manufacturing processes need to be more consistent, the operations more reliable, the operating efficiencies need to be closer or better than that predicted in Design & finally the Manufacturing operations have to be Safe to protect people & environment.

But how one can achieve all the above?

The technology leaders achieve this by having Plant wide data which can be presented meaningfully from the plant operators at floor level to the board room directors.

Plant Instrumentation is the back bone from which the data is acquired & transmitted to various levels & departments in the enterprise to manage business efficiently. It is the window through which plant operations are seen & decisions are taken. Accurate, Stable & Reliable data provided by Instruments are also the foundation for Control to improve Return on Investment.

Today's Intelligent Instrumentation Devices deliver a wide range of Data & Information on Wide area Networks. Large Operations are carried out from the comforts of a distant Control Room Managed by Handful of Skilled Engineers, Operators & Technicians. Fault findings have improved with Strong Diagnostics in the state of the art Instrumentation Systems. These capabilities are significantly improving plant Productivity, availability, Reliability & reduction in Unplanned Down time to Negligible Levels.

COURSE OBJECTIVE:

This Programme is a journey from Concepts of Instrumentation & control to the modern State of the art Instrumentation & Control Systems. The objective of the programme is to revisit the Instrumentation Practices for Engineers, Operators & Technicians who are directly or indirectly using Measurement & Control Systems in their Professional Life & to discuss the latest trends.

The programme has been designed to cover participants from Oil/gas/Petrochemical/ Fertilizer/Power Plants & also the Academicians who intend to refresh themselves with industry experience & current trends.

PROGRAMME CONTENTS:

- Introduction & Concepts in Control & Instrumentation
- Pressure & Flow measurements Techniques & Practices in Industry
- Level & Temperature measurement Techniques & Practices in Industry
- Turbidity Measurements
- Final control Element - The control Valve
- Control Valve Accessories & Typical applications in Industries
- Analytical measurement Techniques, Systems & Their Applications
- Automatic Control Systems, Types, Modes & Advanced Applications
- Hardware & Software Concepts of DCS & PLC
- Technical Visit to an operational organisation to demonstrate operational set up/ Demonstration of technology by vendors.
- Modern DCS Configurations & SCADA Systems
- SMART Instrumentation & Modern Trends
- Group Discussion on Case Studies presentation.

METHODOLOGY

Methodology of the programme includes class room Sessions with Lecture/discussion with audio visual aid, benched 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 members. CMI will be the main method of instruction. Social /management Visits will also be conducted to encourage participants learning from each other's experiences in an informal platform.

PROGRAMME ADVISOR AND RESOURCE PERSON:



Mr. S.K. Thakar
Training & Engineering Consultant
& Former GM Gujarat Narmada
Valley Fertilizers Co. Ltd



Mr. P. Narendra Kumar
Former Divisional Engineer
TSCPDCL, Hyderabad

Faculty

Other faculty consists of experts from industries and other corporate world besides that from ESCI.

TARGET PARTICIPANTS

The Participants can be Engineers and Technicians from OIL/GAS/PETRO/ FERTILIZERS/POWER Industries with 05-15 years Experience from any of the Engineering Branches. Professors from Engineering Colleges and any interests individual can attend the programme.

Benefit to the Participants:

- Awareness on best control & Instrumentation practices and techniques.
- The participants will be able to appreciate the intelligence as well as the state of the art of Control & Instrumentation Systems & will be able to apply this knowledge to Control the Processes efficiently.
- Learning from success Stories in pioneering organizations through case studies and develop new perspectives to transform their own organization.
- Programme provides a unique platform to develop networking and sharing of experiences from fellow participants and faculties even after the completion of programme

PROGRAMME VENUE, DATES & TIMINGS

Venue: Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachibowli, Hyderabad. 500032. TS, India.

Dates

02 - 05 January 2018

Timings

On the first day Registration will commence at 0900 h, on all other days the programme timings will be from 0945-1715 h with breaks in between for tea and lunch.

Course Director



Gp Capt (Retd) BS Phillora, BE (ETC), AE (L), MMS (DS), M Phil, FIE Certified lead Auditor ISO 9001:2015
Dean of Studies ESCI & Sr. Faculty &
Head, Management & Technology Division and Design & Phototyping Centre, ESCI

Course Fee

₹ 20,000/- (Residential Fee) 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.

DISCOUNTS

- ❖ Non-Residential Fee- 10% discount on course fee is allowed for non-residential participants.
- ❖ Group Discount: Additional 10% discount for three or more participants, if sponsored by the same organization.

(All discounts are applicable only if fee is received at ESCI before the commencement of the programme.)

Goods and Service Tax @ 18% is to be paid extra over and above the training fee. PAN Card No AAATT3439Q; **GST No. 36AAATT3439Q1ZV.** (Under commercial training or coaching services).

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 at par cheques payable at any Bank Branches.

Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to ESCI - **SB A/c No.0432104000039631 with The IDBI Bank Ltd., Gachi Bowli Branch, Plot No: 2-53/2, JNIBF, IIIT Junction, Gachi Bowli, Hyderabad-500032 by RTG's/ NIFT / IFSC Code No: IBKL0000432. ESCI PAN No. is AAATT3439Q. While using EFT/ Draft method of payment, kindly forward a covering letter giving details on the names of the participants, Title and the programme schedule so that proper accounting can be done.**

Registration

Online registration shall be available on ESCI website. ([URL:www.escihyd.org](http://www.escihyd.org))

To register, manually please send your nominations giving details of name, designation, contact address, email address, mobiles no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

**Head, Management & Technology Division
Engineering Staff College of India
Old Bombay Road, Gachibowli, Hyderabad 500 032, TS India
Phone: 040 6630 4111 & 66304112/4105
Fax : 040-23000336/040-66304103. Email : mt@escihyd.org**

For Registration Please Contact:

Mr. LV Rao
Programme Manager,
Land line 040 66304105
Mob: 0 9949145865

Certification

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

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 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)
- Well developed Information Centre and Internet facilities are available to the participants Programme Dates Venue & Timings

Nominating authorities are requested to kindly send the contact details of the participants while sending their nomination letter. This will help us in making necessary administrative arrangement for them.