

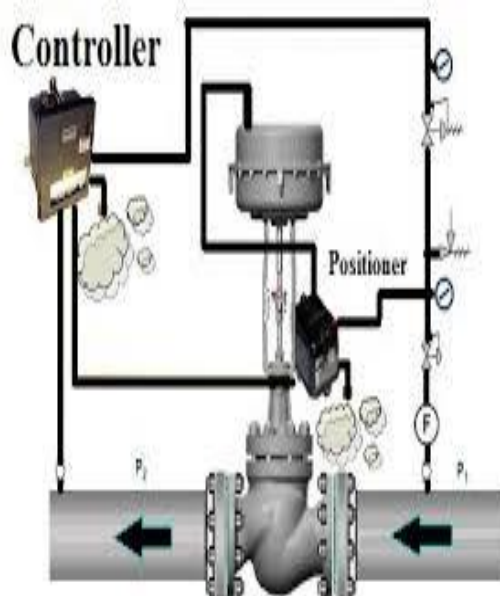


Engineering Staff College of India  
Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



## POWER & ENERGY DIVISION



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*Continuing Professional Development Programme on*

# Best Practices in O&M of Industrial Valves & Actuators for Power Plants & Process Industry

01 – 03 February, 2017



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

## **INTRODUCTION**

Valves constitute a very important class of hardware in industry, which are used for different purposes like controlling fluid-flow through control valves, isolating the flow through isolation valves, process-safety through safety relief valves etc. In power plants, the most essential requirement is to ensure un-interrupted operation of plant and also to match simultaneously the power generation with the consumption demand at any given instant. Control valves and actuators together, play vital role in ensuring accurate control of fluid flow and thereby controlling the generation of power as per demand. In process industry, accurate flow control is very critical for ensuring product quality while safety relief valves contribute a great deal to ensure plant safety and thereby to productivity. Different types of valves like control valves, isolation valves, check valves and pressure relief valves etc are available for different purposes of use in industry under different process conditions of temperature, pressure and dusty environments. Many such valves are operated automatically and remotely by using valve-actuators which are pneumatically/electrically driven, and mounted on the valves. Selection of proper valves and their actuators, and ensuring precision in their functional capabilities are of paramount importance. This program takes the participants through different types of valves and actuators, their construction details, operation features, repair and maintenance aspects etc. in power and process industry.

## **OBJECTIVE**

The objective of the programme is to familiarize the participants with best practices in operation and maintenance of Power Plant and process industry to maintain optimum output with the highest degree of reliability.

## **COURSE COVERAGE**

- Valves types and classification, relative merits and applications
- Basic elements of valves & their materials
- Construction details of different type of valves
- Steam Traps
- Different Type of Actuators & Classification
- Trouble shooting of valves & actuators
- Maintenance & Repair of valves & actuators
- Gland packings of valves, Best Practices

## **METHODOLOGY**

The programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The classrooms are provided with latest audio – visual teaching aids. The ambience in the campus and classrooms facilitate in effective learning by participants.

## **FACULTY**

Apart from Core Internal Faculty, Consulting Firms, Government Organisations, Manufacturing, Academic and Research Institutions etc. will share the sessions.

## **TARGET PARTICIPANTS**

Engineers and Managers from Power Utilities, Independent Power Producers Process Industry Operation and Maintenance of Power Stations and Chemical and all Process Industries

## **PROGRAMME VENUE, DATES & TIMINGS**

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

## **DATES**

**01 – 03 February, 2017**

## **TIMINGS**

On the first day registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

## **COURSE DIRECTOR**

**A Chandra Mohana Rao**

Head I/c & Sr. Faculty - Power & Energy Division, ESCI

## **COURSE ADVISOR**

**B Prahlad**

Former Dy. Chief Executive, Nuclear Fuel Complex, DAE

## **COURSE FEE**

**Residential Fee** is Rs.15,000/- per participant. Residential fee includes Course Material, Course Kit, and Twin-sharing / Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

## **DISCOUNTS**

**Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants.

**Group Discount:** 10% discount for three or more participants if sponsored by the same organization.

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

**Service Tax @ 15%** is to be paid extra over and above the training fee. ESCI's **Service Tax Registration No** AAATT3439QST008 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994). **PAN Card No.** AAATT3439Q;

The course 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 – 500 004 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, ESCI invoice reference and programme title.

Online registration is available on ESCI website. To register, manually please send your nominations (**10 days** prior to date of commencement of the programme) giving details of name, designation, contact address, email address, mobile number, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

**Head, Power & Energy Division**

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone: 040 – 6555 3371 / 3370/ 3372; 040-6630 4100, Fax: 040 - 23000336

Email:pe.esci@gmail.com / pe@escihyd.org; Website: www.escihyd.org

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

**GENERAL INSTRUCTIONS**

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station / 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 participants directly to the cab driver.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00 hrs a day prior to the commencement & check out at 12:00 hrs a day after completion of the programme)
- Overstay charges of @ Rs.990/- per day / per head including hospitality (Bed Tea / Coffee to Dinner) will be charged.
- Well developed Information Centre and Internet facilities are available to the participants free of cost.