



ENGINEERING STAFF COLLEGE OF INDIA

Autonomous Organ of The Institution of Engineers (India)
(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018],
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)
Old Bombay Road, Gachibowli, Hyderabad – 500 032. Telangana, India



Management and Technology Division

Hybrid (Offline & Online) Continuing Professional Development Programme on

Industrial Piping Practices: Design, Installation and Maintenance

Dates : 16 – 19 November 2026

at ESCI Campus, Hyderabad

INTRODUCTION

Industrial piping systems are critical to the safe and efficient operation of process plants, refineries, petrochemical, power, chemical, pharmaceutical, and other industries. In the current industrial context, increasing emphasis on safety, reliability, energy efficiency, environmental compliance, asset integrity, and lifecycle cost optimization has made effective piping practices essential.

The four-day training Programme on “Industrial Piping Practices: Design, Installation and Maintenance” provides a practical overview of the complete piping lifecycle, covering design principles, material selection, piping components, layout and routing, codes and standards, fabrication, installation, inspection, testing, commissioning, operation, and maintenance. Key issues such as pipe supports, thermal expansion, corrosion, leakage, vibration, and integrity management will also be addressed.

Through practical examples, case studies, industry practices, and interactive discussions, the Programme aims to enhance participants’ ability to design, install, operate, inspect, and maintain piping systems safely and effectively. The Programme is intended for engineers, supervisors, maintenance and inspection personnel, designers, project professionals, and other technical personnel associated with industrial piping systems.

OBJECTIVES: The main objectives of the Programme are:

- ❖ Understanding industrial piping design, materials, components, layouts, supports, and applicable codes.
- ❖ Developing practical knowledge of fabrication, installation, inspection, testing, and commissioning.
- ❖ Understanding factors affecting piping safety, integrity, reliability, and performance.
- ❖ Identifying common issues such as corrosion, leakage, vibration, and thermal expansion.
- ❖ Applying industry best practices for safe, reliable, and cost-effective piping systems..

COURSE COVERAGE

- **Piping Design Fundamentals** – Design principles, layouts, routing, materials, and applicable codes and standards.
- **Piping Components** – Pipes, valves, flanges, fittings, gaskets, and specialty components.
- **Piping Stress & Supports** – Thermal expansion, flexibility, loads, vibration, and support systems.
- **Fabrication & Installation** – Welding, fabrication practices, erection, alignment, and field installation.
- **Inspection & Testing** – Quality control, NDT, pressure testing, inspection, and commissioning.
- **Piping Maintenance & Integrity** – Corrosion, leakage, degradation, inspection strategies, and repairs.
- **Failure Prevention & Case Studies** – Common failures, troubleshooting, lessons learned, and industry best practices.

METHODOLOGY

Methodology of the program includes workshop Sessions with Lecture/discussion with audio visual aids, demonstration of several types of bearings, condition monitoring instruments and practice, bench marked practices if any, video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc.

TARGET PARTICIPANTS

The programme is highly useful for senior engineering executives and engineering managers working in operation, maintenance, quality control, quality assurance, design, process planning, in manufacturing and process industries, automobile, defense, aeronautical, ordnance factories, public & private sectors enterprises will be highly benefited by attending the programme.

EXPERT FACULTY

The faculty also consists of Eminent Experts from Process Industry, Manufacturers, and Service providers beside core faculty from ESCI.

PROGRAMME DIRECTOR

Dr. US JYOTHI, FIE

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PROGRAMME DATES & TIMINGS

Dates: 16 – 19 November 2026

Timings : On the first day Registration will commence at **09:00 Hrs**. On all other days the programme timings will be from **09:45-17:15 Hrs** with breaks in between for tea and lunch.

COURSE FEE: Rs.22,000/- (**Rupees Twenty Two Thousand only**) per Participant + GST@18% is extra. 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.

Online: WebEx platform.

Rs. 14,000 /- (Rupees Fourteen Thousand only**)** per participant + GST@18% is extra.

DISCOUNTS

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

PAN Card No AAATT3439Q; GST No. 36AAATT3439Q1ZV. H.S. No. 999293 (Under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favor of **“THE INSTITUTION OF ENGINEERS (INDIA) – 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.0432104000039631 with The IDBI Bank Ltd., Gachibowli Branch, Plot No. 2-53/2, JNIBF, IIIT Junction, Gachibowli, Hyderabad-500032 by RTG's/ NIFT / IFSC Code No: IBKL0000432**. While using EFT method of payment, please ensure to communicate us your company name, our Invoice reference and programme title.

CERTIFICATION

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.
- 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 free of cost.