



# Charisma Education Pvt. Ltd.

## Training on Piping Inspection, Repair, Alteration, and Reconstruction as per API Standard 570

Vadodara, India, 5 Days, Year 2023

Training Program on **Piping Inspection, Repair, Alteration, and Reconstruction as per API Standard 570** will be held in Vadodara organized by Charisma Education Pvt Ltd. CEPL is a Scientific and Technical Consultancy involved in the Design of Process Equipment, Technical Troubleshooting Process Plants, Failure Analysis of Equipment of Piping System etc. We also provide correspondence courses for Process Equipment and Pressure Vessel Design, Piping Technology.

### OBJECTIVE:

This 5-day training is designed to refresh the engineers for the Piping and Pipeline design as per ASME B31 and Inspection of the piping systems and their evaluation of fitness-for-service as per API 570 and API 579. This course includes instructions on the relevant codes & standards. This program will also help in preparation of the API Inspectors Examination.

### COVERAGE OUTLINES:

Introduction, Piping & Pipeline Terminology, Discussion on API 570 (Piping & pipeline Inspection, repairs, alteration and re-rating) and API 579 (Fitness-for-Service) standards, ASME B 31 (Piping & pipeline design standards) & other topics such as Piping Components, Materials, Welding Processes, Weld Discontinuities, Welding Metallurgy, Corrosion, Inspections & Surveillance, Pressure Testing, Inspection tools, Inspection Interval, Cathodic Protection, Corrosion Rate evaluation, Minimum Safe Thickness evaluation, Repairs, Heat Treatment, Design evaluation for integrity, External Inspection, and Fitness-for-Service evaluation.





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The training would be of three days and would cover the following areas:

## **Day 1:** Piping and Pipeline Design

- \* Piping Codes & Standards
- \* Introduction to ASME B31.3
- \* Design of Piping System (ASME B 31.3, 31.4 and 31.8)
- \* Selection of Piping Components (Flanges, Fittings, Valve, Supports, Expansion Joints, etc.)

## **Day 2:** Sizing & Stress Analysis

- \* Pipe sizing, Flow and Pressure Drop Calculations
- \* Stress Analysis, Flexibility Stress Analysis
  - Location of Supports, Provision of Loops, Bends

## **Day 3:** Piping Welding, In-service Deterioration, Evaluation as per API579

- \* Piping Welding
- \* Deteriorations in Service
- \* Inspection Tools and Instruments
- \* Fitness for Service Evaluation as per API 579

## **Day 4:** In-service Inspection as per API 570

- \* Inspection Guidelines
- \* Defect Evaluation
- \* Remaining Life Assessment
- \* Interval of Inspection evaluation

## **Day 5:**

- \* Repairs, Maintenance and Alterations as per API570
- \* Tests for evaluation, guidance to API 570 Inspectors Certificate Examinations
- \* Mock Interviews to evaluate preparedness

This training shall prove useful for

1. Experienced Professionals who wish to brush up their knowledge and stay abreast with the latest in the industry. This would provide you an edge amongst all.
2. Engineers and Technologists and fresher from varied technical background interested in learning more about Piping and pipeline technological disciplines.

The training package includes

1. Comprehensive course material of 200+ pages to each participant & exposure to Operating Plant Piping conditions, Inspection and fitness.
2. Lectures by renowned experts of 30+ years of experience in the Industry

Our clientele include Oman Refinery, Qatar Petroleum, Oman Gas, STS Oman, PDO, L&T, ABB, TCE, EIL, GAIL, IFFCO, GSFC, IOC, RELIANCE, ALSTOM-POWER, LINDE, REAL, BHEL, TRANSPEK, ONGC, PRAJ, Tecnimont ICB, MECON, Chennai Petroleum & many others who have benefited from program conducted regularly by us.

## **METHODOLOGY**

1. Technical Sessions
2. Problem Solving Sessions
3. Case Studies



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## DATE & TIME

Place- Vadodara

Date- **5 Days, Year 2023**

Time: 10.00 AM- 5 PM

## VENUE

CEPL Conference Room, 302 Sunsilver Aptt, Productivity Road, Vadodara

## REGISTRATION

The Registration fees: **Rs. 56000** per delegate

The fee may be sent to us in the form of a Cheque drawn in favor of **Charisma Education Pvt. Ltd.**, payable at Vadodara. Fee may also be transferred online to our bank account, details of which will be provided on request.

Request for registration can be sent on the organization letter-head along with the fee as cheque.

## CONTACT India:

**Charisma Education Pvt Ltd.**

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