



# Charisma Education Pvt. Ltd.

## Training on

## Failure Prevention, Repairs and Life Enhancement of Piping, Vessels and Tanks

Vadodara, India, 2 Days, Year 2022

Training on **Failure Prevention, Repairs and Life Enhancement of Piping, Vessels and Tanks** 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, Piping Systems and Industrial structures.

### Objective

This training program is designed to refresh the engineers for the Failure Prevention, Repairs and Life Enhancement of Piping, Vessels and Tanks. This course includes the orientation to damage mechanism, prevention of failures, proper repairs and enhancement of safe life of piping systems, vessels and tanks.

This program is designed to train individuals who are interested in undertaking the supervision and inspection of welded construction, identifying defects and repair. This training will enable Welding Inspectors to inspect equipment and structures as per guidelines of ASME PV Code Welding Sec IX. Operating plant personnel will get benefitted to improve maintenance and profitability of plant systems.

### Program Outlines:

#### Day 1:

#### Identifying Damages, Failures, Maintenance Needs, Inspections and Practices:

MIRP 1.01 Overview of Oil & Gas and Process Industry- Process Equipment, Piping and Pipeline Systems

MIRP 1.01.1 Process Equipment and Piping Systems in Oil and Gas Sector, Petrochemical and Chemical Plants

MIRP 1.02 Selection of Engineering Materials of Process Equipment & Piping System

MIRP 1.03 Failure Modes & Damages of Process Equipment and Systems

MIRP 1.04 Risk based Inspection Programs

MIRP 1.05 Inspection Practices

MIRP 1.06 Tips to Minimize Corrosion and Failures

MIRP 1.07 Welding Inspections and Quality Assurance

MIRP 1.08 Welding Quality Assurance ASME Sec IX

#### Day 2:

#### Proper Inspections, Repairs and Maintenance:

MIRP 2.01 Quality Control, Inspection of Process Equipment, Maintenance Guidelines

MIRP 2.02 Welding Defects Inspection and NDE

MIRP 2.03 Piping Inspection & Testing Practices, Maintenance Guidelines

MIRP 2.04 Piping Inspection Frequency and Extent of Inspection



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MIRP 2.05 Inspection while Equipment and Piping is under Shutdown

MIRP 2.06 Repairs of damaged Vessels in Service, Maintenance Guidelines of Equipment

MIRP 2.07 In-service Inspection for Safe Remaining Life

MIRP 2.08 Tank Inspection for Suitability for Service

MIRP 2.09 Tank Inspection Repair & Alteration API 653 Sec 9

MIRP 2.10 Case Studies:

Discussion on Case Histories on Failures, Inspection & Probable Repairs

- Caustic Solution Storage Vessel ( Stress Corrosion Cracking, Inspection, Recommended Repairs)
- Down-comer pipe support bracket attached to vessel failed due to fatigue cracking (Inspection, failure analysis, redesign of bracket support, recommended repairs)
- Case histories of participants will be invited; scheme for inspection, design evaluation & recommended repairs will be discussed.

Open House, Discussion on Failure Case histories, Maintenance and Repairs

This training program shall prove useful for

1. Experienced Professionals who wish to brush up their knowledge and stay abreast with the latest in the industry.
2. Engineers and Technologists and fresher from varied technical background interested in learning more about Welding technology, Quality Assurance, Inspections and Evaluation of Weld Defects.



The seminar package includes

1. Comprehensive course material of 150+ pages for the training program to each participant on identifying damages in operating plants, proper repairs & exposure to Welding QA and Inspection.
2. Lectures by renowned experts of 30+ years of experience in the Industry.
3. Our expert consultants who may conduct the training include **Mr Narendra Roy and Dr K ElayaPerumal**.



# Charisma Education Pvt. Ltd.

Our clientele include Oman Refinery, Qatar Petroleum, Oman Gas, PDO, L&T, TCE, EIL, GAIL, IFFCO, GSFC, IOC, RELIANCE, LINDE, REAL, BHEL, TRANSPEK, ONGC, PRAJ, Tecnimont ICB, MECON, Chennai Petroleum, Essar Project, COMFORI, CapSource Malaysia, PakrisEnergy Nigeria, YF Asia & many others who have benefited from program conducted regularly by us.

## METHODOLOGY

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

## DATE & TIME

**Place-** CCPL Conference Room, Vadodara, India

**Date-** 2 Days, Year 2022

**Time:** 10.00 AM- 5.00 PM

## VENUE

CCPL Conference Room, 302 Sunsilver Appt, Productivity Road, Near Akota Garden, Vadodara 390020

## REGISTRATION

### The Registration fees:

Indian participants: Rs 20000 per participant

Foreign Delegate: The Registration fees shall be **US \$ 500** per delegate or in equivalent Indian Rupees.

The fee may be sent to us in the form of a Cheque drawn in favour of **Charisma Education Pvt. Ltd.**, payable at Vadodara. Fee may also be transferred to out bank account with HDFC Bank in Vadodara. Details will be sent on request.

Request for registrations can be sent on the organization letter-head along with the fee as cheque or through bank transfer to CEPL Bank Account. Emails are acceptable for pre-registration to the training course.

## CONTACT India:

### Charisma Education Pvt Ltd.

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