

“Physical Asset Integrity Series”

PIPELINE CORROSION INTEGRITY MANAGEMENT SYSTEMS

**A Classroom Training
Programme**



Principal Course Leader
Dr. M.S. Parvizi, PhD, FICorr, FIM3, CEng.

- Receiving 2021 NACE Technical Achievement Award
- More than 40 years' experience in Oil, Gas and Petrochemicals
- Fellow Member of the Institute of Corrosion and Material
- NACE International Corrosion Specialist
- NACE Instructor



6^h - 8th May 2024



Dubai, Millennium Hotel, Business Bay



AED 5500 / \$1500+ VAT per person



Early Bird Registration: 5th April 2024

International Organizer



www.matgroup.org

PIPELINE CORROSION INTEGRITY MANAGEMENT SYSTEMS

“Pipeline Corrosion Integrity Course” has been designed to improve the scientific and professional level of engineers knowledge. This course will be held for 3 days starting on Monday 6th May 2024 from 8:30 AM to 5:00 PM in Dubai/UAE.

Course Objectives:

To provide attendees with the latest techniques used to develop a comprehensive integrity management program covering *both offshore and on-shore pipelines* and their associated facilities. The necessary elements of such a program are described in detail with examples of typical program content. The accompanying course notes are written in such a manner as to provide a starting point for a company in either developing its own integrity management plan or updating its current plan. The course provides a sound review of pipeline integrity management strategies, in compliance with regulatory requirements. It is highly interactive and takes the form of lectures and case studies. On completion of the course, participants will have a solid understanding of the procedures, strengths, limitations, and applicability of the main issues that comprise a pipeline integrity management program.

Who Should Attend

Supervisors, Engineers and Technicians responsible for ensuring the adequate protection of pipeline assets. Maintenance planners, Regulators and service providers to the pipeline industry will also benefit from attending the course. After attending this course, you will be able to understand and apply the followings:

- Codes used in developing integrity management plans
- The elements of an integrity management plan
- Critical aspects of Risk Assessment Analysis
- Prevention and mitigation measures
- Characteristics and limitations of different inspection methods
- A risk based approach to maintenance



COURSE OUTLINE

- Basic Corrosion Mechanisms
 - ✓ (overview of main degradation mechanisms in pipeline operation)
- Identification of Corrosion in Internal of Pipeline
 - ✓ Methodology To Detect And Prevent The Dominating Corrosion Mechanisms.
- Internal Corrosion Mitigation
 - ✓ Applicable Methods For Corrosion Prevention.
 - ✓ **External Corrosion Mitigation System For Subsea Pipeline and Offshore Structures, Jackets And Risers**
- Internal Corrosion Integrity Management
- Regulations: Overview of 49 CFR 192: Oil and Gas Regulations: Overview of 49 CFR 195: Hazardous Liquid
- Standards: Managing System Integrity (ILI, Hydrostatic Testing)
- Standards: Direct Assessment Processes (ECDA, SCCDA, ICDA)
- Technical Challenges: Pipeline Manufacturing & Construction
- Technical Challenges: Pipeline Operation & Failure Sources
- Remediation Activity ,Repair Methods, Inspection and Assessment Intervals
- Repair Methods and Protocol
- Case Studies, History of Pipeline Failures (Offshore And On-shore) Probability of Pipeline Failures and Concluding Remarks



PIPELINE CORROSION INTEGRITY MANAGEMENT SYSTEMS

Principal Course Leader Dr.M.S.Parvizi

Sadegh Parvizi has over 40 years' experience in Oil, Gas, Refineries, Petrochemical, Power industries and Manufacturing Plants. His particular expertise includes materials evaluation as well as integrity management, remnant life assessment and implementation of corrosion control techniques in these industries. He has been actively engaged in investigating and advising on various technical problems, such as selection of materials, optimization of their use, plant failure investigation, Welding/NDT review, CP design review, and technical advice on repair procedure, auditing, writing materials specification. He has been involved in technical clarification activities with the manufacturers on a numbers of projects. He has been involved in a large number of projects world-wide ranging from the conceptual stage to commissioning and production. He has played an important part in troubleshooting of some major production plants.

Sadegh Parvizi graduated from department of the Metallurgy and Materials Engineering at Sharif (ex-Aryamehr) University of Technology in Tehran in 1976. He has an MSC in Materials Engineering and a PhD and Postdoctoral degree in Materials Science and Technology from the University of Surrey, UK. His professional career has been sectioned into three distinctive areas as follows:

- Research and Development: Working in International Copper Research Association (INCRA), USA on alloy development projects, Electrical Research Association (ERA), UK on metallurgical behaviour of materials at high temperature. In British gas on the effect of natural gas contaminants on the material performance and leading the department of R&D in National Petrochemical Complexes (NPC) of Iran.
- Oil & Gas Operating Companies: British Gas, UK, ADMA-OPCO, UAE, Occidental Petroleum of Qatar and Consultant to Exxon Mobil for Chemical plants in Singapore.
- Engineering Companies: Working with major international Engineering companies such as Technip, Bechtel, and Foster-Wheeler and, at present, working for CB&I (Chicago Bridge and Iron) as a head of Materials Technology Group.

Sadegh Parvizi is an active fellow member of the Institute of Materials and the Institute of Corrosion, and NACE International certified corrosion specialist and Chartered Engineer. He is an approved instructor of NACE in Refining Industries. **Dr.Parvizi** has lectured on a number of occasions for researchers, engineers and operators. He has developed a dynamic mechanism on the interaction of different disciplines in projects set-up. He has published and presented a number of papers internationally and has been a key speaker at several Corrosion Conferences.

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