



Training Seminars & Conferences

An Intensive 5-Day Training Seminar On

Fitness for Service Assessment of Pressure Vessels, Tanks and Piping Systems Using API 579-1 and ASME FFS Standards

22 - 26 Sep 2019, Dubai

www.euromatech.com



Fitness for Service Assessment of Pressure Vessels, Tanks and Piping Systems Using API 579-1 and ASME FFS Standards

INTRODUCTION

Pressure Vessels, Tanks and Piping Systems are very important equipment for oil, gas and petrochemical industry. This EuroMaTech training course will enable delegates to learn how to apply API 579-1 / ASME FFS-1 codes "Fitness-for-Service" to evaluate the integrity and quantify the remaining life of stationary equipment including pressure vessels, storage tanks, piping systems. Proper implementation of those codes ensures minimum down time and maintenance costs through cost effective run-repair-replace decisions and select the appropriate repair options.

Key highlights of this EuroMaTech training course are:

- Understanding design, operation and maintenance strategies for stationary equipment
- Identification of failure modes and material degradation mechanisms: stress corrosion, cracks, blisters, in the framework of API 579 / ASME FFS
- Methodology for quantitative evaluation of remaining life of the equipment based on its fitness for service
- Integrity of stationary equipment based on material properties of strength and toughness
- Application of fitness-for-service methodology for optimization of maintenance and repairs

PROGRAMME OBJECTIVES

- Understand factor of safety and P-F graphs for pressure vessels, tanks and pipelines
- Outline the latest techniques of assessing the fitness-for-service of pressure vessels, tanks and piping systems, advantages and limitations
- Acquire a methodology for quantitative evaluation of the remaining life of equipment
- Choose and implement cost-effective run-repair-replace decisions based on API 579 / ASME codes
- Learn how to assess defects in pressure vessels, storage tanks and piping systems

WHO SHOULD ATTEND?

- Pipelines, tanks and pressure vessels operation and maintenance professionals
- Integrity management and reliability engineers
- Corrosion and materials engineers
- Plant and project engineers
- Inspection engineers for pressure equipment and piping systems

TRAINING METHODOLOGY

This Best Practices on Damage and Integrity Management (API 579-1 / ASME FFS-1) training course will be conducted along workshop principles with formal lectures, and interactive worked examples. The emphasis in the course will be on explanation of all technical phenomena and providing answers to problems that are encountered in everyday industrial practice. Each learning point will be reinforced with practical examples. There will be a plenty of opportunities for active discussions and sharing experiences.

PROGRAMME SUMMARY

This EuroMaTech training course will provide practical knowledge and experience in evaluating the integrity and overall fitness for service of stationary equipment. It will provide a method of determining the remaining life of pressure vessels, storage tanks, piping systems and pipelines. The training course will also cover basic principles of application of API579 -ASME Code rules related to material properties that are important for consideration of stresses and fractures when making important decision about equipment regarding options: run or repair or replace.



EuroMaTech is recognized by the Society for Maintenance & Reliability Professionals (SMRP) as an Approved Provider. The SMRP Approved Provider status allows EuroMaTech to host a number of maintenance & reliability related continuing education trainings.

This training course is approved by SMRP to issue 25 Continuing Education Course Hours (CECHs) towards recertification of CMRP, CMRT or CAMA credentials.

PROGRAM OUTLINE

DAY 01

Equipment Classifications, Failures and Assessment Methods

- Classification of equipment used in process plants
- Why and how equipment fail
- The concept of Fitness For Service
- Fitness for Services API & ASME codes

DAY 02

Design Parameters Calculations and Testing Methods

- Calculation of minimum allowable thickness (*MAT*)
- Determination of maximum allowable working pressures (*MAWP*)
- Damage mechanisms, deterioration and failure modes
- Non-destructive testing and evaluation (*NDTE*) methods

DAY 03

Corrosion and Erosion Mechanisms and Protection Strategies

- Assessment of general metal loss: *corrosion mechanisms*
- Assessment of local metal loss: *typical mechanisms*
- Assessment of pitting corrosion and blisters
- Metal loss and corrosion protection strategies

DAY 04

Welding Methods, Cracks and Creep

- Welding methods: advantages and limitations
- Weld misalignment and shell distortions
- Assessment of components operating in the creep range
- Assessment of Crack-Like Flaws

DAY 05

Other Related Damage Mechanisms – Fire and Mechanical Damage

- Assessment of fire damage
- Assessment of dents, gouges, and dent-gouge combinations
- Assessment of laminations

IN-HOUSE TRAINING

EuroMaTech is capable of conducting this training programme exclusively for your delegates. Please e-mail us on inhouse@euromatech.ae for further information and/or to receive a comprehensive proposal.

QUALITY CERTIFICATIONS & ACCREDITATIONS

EuroMaTech is proud to be associated with the following accreditation bodies:



The PMI® Registered Education Provider logo is a registered mark of the Project Management Institute, Inc.

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✓	Date	Venue	Fee(\$)
	22 - 26 Sep 2019	Dubai	US\$4,950

*This fee is inclusive of instruction materials, documentation, lunch, coffee/tea breaks & snack. All Fees are subject to 5% Value Added Tax (VAT).**

Your Details

Name (Mr/Ms):.....
 Position:..... Organisation:.....
 Address:.....

 City / Country:
 Telephone / Fax:

Mode Of Payment

- Please find enclosed a cheque made payable to EuroMaTech
- Please invoice me
- Please invoice my company as follows:

Contact Name:
 Company Name:
 Address:.....

Documentation

High Quality material has been prepared by the Seminar Leader for distribution to delegates. In addition, a special note pad to facilitate note taking will be provided.

Certificates

A Certificate of Completion will be issued to those who attend & successfully complete the programme.

Schedule

Our Course timings commences at 08:30 and concludes at 14:00, followed by lunch on a daily basis.

Hotel Accommodation

EuroMaTech has negotiated special rates for a limited number of rooms in the hotel. Early registration will help to secure a room at the reduced rate.

Registration & Payment

Please complete the registration form on this page & return it to us indicating your preferred mode of payment. For Further Information, Contact Your Nearest EuroMaTech Office.

Cancellation Policy

Request for seminar cancellation must be made in writing & received at EuroMaTech three weeks prior to the seminar date. A U.S.\$250/- processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.

Disclaimer

EuroMaTech reserves the right to alter the content, location of the Seminar, or the identity of the speakers in case of events beyond our control.

***VAT Announcement:** The Government of UAE have introduced Value Added Tax (VAT) on goods and services from 01-January-2018. In compliance with the legislation issued by the UAE Government, we will be applying a 5% VAT on the fees for all our programs and services offered from January 2018 as applicable and stipulated in the FTA circulars.

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