



FITNESS-FOR-SERVICE (FFS) FOR INSPECTORS & ENGINEERS

FFS Assessments - 3-day Training Course

Course: FFS for Inspectors & Engineers
Place: 4000 Underwood Road,
La Porte, TX 77571 - USA

OVERVIEW

An FFS assessment is a multi-disciplinary engineering approach to determine if equipment is fit to continue operation for a desired future period. The equipment may contain flaws, have sustained damage, or have aged so that it cannot be evaluated by use of the original construction codes. API 579-1/ASME FFS-1 is a comprehensive, consensus industry recommended practice to analyze, evaluate, and monitor equipment for continued operation.

Completing this course will enable participants to apply FFS procedures in their daily work. The material presented in the course shows how the disciplines of stress analysis, materials engineering, and nondestructive testing interact and apply to FFS assessments.

COURSE CONTENT

This course has been developed based on API 579-1/ASME FFS-1, and is targeted at teaching how to conduct FFS assessments.

Specific topics to cover:

- Introduction to MI and FFS
- FFS assessment procedure
- Assessment of damage mechanisms
- Assessment of existing equipment for brittle fracture
- Assessment of general metal loss
- Assessment of local metal loss
- Assessment of pitting corrosion
- Assessment of hydrogen blisters & hydrogen damage associated with HIC & SOHIC
- Assessment of weld misalignment and shell distortions
- Assessment of crack-like flaws
- Assessment of components operating in the creep range
- Assessment of fire damage
- Assessment of dents, gouges, and dent-gouge combinations
- Assessment of laminations

OBJECTIVES

At the end of the course, attendees will be able to:

- Conduct FFS assessments
- Apply the latest FFS technologies for making repair, replace, rerate & redesign decisions

The course includes a complete set of notes to supplement the recommended practice, and uses example problems to reinforce lesson objectives. Students are encouraged to bring their own copy of API 579-1/ASME FFS-1

WHO SHOULD ATTEND?

The course is aimed at plant inspectors, plant engineers, non-destructive testing engineers, and materials and corrosion engineers responsible for managing the integrity of ageing process equipment, piping, boilers and storage tanks.

This course covers FFS assessments (for plant inspectors and engineers), in accordance with the 2007 edition of API 579-1/ASME FFS-1.

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