



COURSE

# API 579 - Fitness For Service (FFS)

**This course provides a broader understanding of the failure mechanisms of pressure equipment.**

LEVEL: Intermediate

TYPE: Classroom

SECTOR: Energy/Industry

## COURSE OVERVIEW

RINA's three-day, modular course covers the techniques of API 579 FFS integrity assessment and how they are applied to corroded and cracked pressure equipment.

The course is suitable for engineers with an interest in assessing corroded vessels and pipes, and handling code and out-of-code FFS assessments, but who lack a detailed knowledge of stress analysis.

Our highly practical course is designed to provide delegates with a broad understanding of the failure mechanisms of pressure equipment. Delegates are taught the role of construction codes (ASME BPVC Section VIII and ASME B31.1) in FFS assessment of pressure equipment, the principles of out-of-code FFS assessments and selected methodologies of API 579.

## TOPICS COVERED

- Design code margins that enable FFS assessment
- Summary of Level 1 and Level 2 assessments
- Assessment of general and local corrosion
- Level 1 crack assessment
- Using Failure Assessment Diagram (FAD)
- Level 2 crack assessment
- Case study exercises using manual calculations.



## TRAINING DETAILS

A three-day, classroom based course including continuous assessment of delegates throughout the duration of the course, three-day classroom particularly during the participation exercises. There will be an end-of-course test comprising multiple choice and descriptive questions, with a pass mark of 70%.

## DID YOU KNOW?

RINA is an authorised global training provider for the American Society of Mechanical Engineers (ASME) and a market leader in the provision of ASME and API inspector training courses for pressure systems and mechanical plant.

Information on all RINA's all ASME and API inspector training courses and publications are available at:  
[https:// www.rina.org/en/technical-training](https://www.rina.org/en/technical-training)

Our regular programme of CPD-certified courses covers a diverse range of areas, from lightning and earthing to rail and software safety. AccessERA subscribers receive a 10% discount on a range of RINA course prices at the time of booking, when the booking is made directly with the training team. Subscribers can also use their credits to book on certain courses.

## RELATED COURSES

- ASME - Plant inspector Level 1
- ASME - Plant inspector Level 2

For more details, visit our website [www.rina.org](http://www.rina.org)

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