

MAINTENANCE AND ENGINEERING | ME-024

Pressure Vessels Inspection and Integrity

Contact

+31 85 7444446
info@aractech.com
https://aractech.com

Address

Waarderweg 50, 2031PB Haarlem - Netherlands.

Course content

Why Attend

Pressure vessels store large amounts of energy and hazardous fluids. Failures can be catastrophic, so design, inspection and integrity management must meet strict requirements.

This Aractech course covers pressure vessel design codes, construction, damage mechanisms, inspection planning and techniques, risk-based inspection, fitness-for-service assessment, repairs and alterations, and regulatory compliance. Participants plan inspections and assess defects.

Course Methodology

- Technical lectures
- Inspection planning workshops
- Defect assessment exercises
- Case studies
- Group discussions

Course Objectives

- Explain pressure vessel design and codes
- Identify damage mechanisms
- Plan inspections using risk-based approaches
- Select inspection techniques
- Assess defects and fitness for service
- Manage repairs and regulatory compliance

Target Audience

- Inspection engineers
- Mechanical and integrity engineers

Course content

- Maintenance managers
- Plant engineers

Course outline

Detailed course outline

Day-by-day outline for Pressure Vessels Inspection and Integrity.

Day 1 - Pressure Vessel Fundamentals

- 09:00-09:39 | Applications
- 09:39-10:56 | Design codes
- 10:56-11:00 | Components
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Components (continued)
- 12:05-12:43 | Materials
- 12:43-14:00 | Exercise: Vessel data review

Day 2 - Damage Mechanisms

- 09:00-09:45 | Corrosion
- 09:45-10:30 | Cracking
- 10:30-11:00 | Creep and fatigue
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Creep and fatigue (continued)
- 11:45-12:30 | Brittle fracture
- 12:30-14:00 | Case study: Vessel failure

Course outline

Detailed course outline

Day-by-day outline for Pressure Vessels Inspection and Integrity.

Day 3 - Inspection

- 09:00-09:45 | Inspection types
- 09:45-10:30 | Techniques
- 10:30-11:00 | Risk-based inspection
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Risk-based inspection (continued)
- 11:45-12:30 | Intervals
- 12:30-14:00 | Workshop: Inspection plan

Day 4 - Fitness for Service

- 09:00-09:45 | Defect assessment
- 09:45-10:30 | Remaining life
- 10:30-11:00 | Rerating
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Rerating (continued)
- 11:45-12:30 | Decision-making
- 12:30-14:00 | Exercise: Defect assessment

Course outline

Detailed course outline

Day-by-day outline for Pressure Vessels Inspection and Integrity.

Day 5 - Repairs and Compliance

- 09:00-09:54 | Repairs and alterations
- 09:54-10:48 | Documentation
- 10:48-11:00 | Regulatory requirements
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Regulatory requirements (continued)
- 12:12-13:06 | Integrity programmes
- 13:06-14:00 | Capstone: Integrity management plan

Seminar dates

Available seminar dates

Live dates and pricing for Pressure Vessels Inspection and Integrity generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Barcelona	Classroom	€2,815
14 - 18 December 2026	London	Classroom	€2,315
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Cape Town	Classroom	€1,625
15 - 19 March 2027	Barcelona	Classroom	€2,815
19 - 23 April 2027	Rome	Classroom	€3,460
17 - 21 May 2027	Kuala Lumpur	Classroom	€1,925
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Geneva	Classroom	€4,315
16 - 20 August 2027	Istanbul	Classroom	€1,978

Seminar dates

Available seminar dates

Live dates and pricing for Pressure Vessels Inspection and Integrity generated from the course details page.

Date	Location	Format	Fee
20 - 24 September 2027	Vienna	Classroom	€3,225
18 - 22 October 2027	Barcelona	Classroom	€2,815
15 - 19 November 2027	Rome	Classroom	€3,460
20 - 24 December 2027	Kuala Lumpur	Classroom	€1,925
9 - 13 November 2026	Online / Live	Online / Live	€1,815
14 - 18 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

Seminar dates

Available seminar dates

Live dates and pricing for Pressure Vessels Inspection and Integrity generated from the course details page.

Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
15 - 19 November 2027	Online / Live	Online / Live	€1,815
20 - 24 December 2027	Online / Live	Online / Live	€1,815