

API 570 - Inspection and Repair of Piping Systems Training

COURSE CONTENT

GET IN TOUCH



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About Multisoft

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About Course

Multisoft Systems' API 570 - Inspection and Repair of Piping Systems training is designed for professionals seeking to deepen their understanding of piping system maintenance, inspection, and repair.

Module 1: Introduction, scope and limitations

Module 2: Fitness for service (FFS)

Module 3: Inspection organization, inspectors

Module 4: Inspection, examination and testing

- ✓ Inspection Plan
- ✓ Risk based Inspection (RBI)
- ✓ Damage mechanisms
- ✓ Types of inspection, locations according to damage
- ✓ Condition monitoring locations (CMLs)
- ✓ Corrosion under insulation inspection (CUI)
- ✓ Mixing point inspection
- ✓ Injection point inspection
- ✓ Pressure testing of piping systems
- ✓ Material verification and traceability
- ✓ In-service inspection of welds
- ✓ Inspection of flanged joints

Module 5: Inspection intervals, extent and frequency

- ✓ Inspection extent
- ✓ Inspection during installation | service change
- ✓ Service classes in piping systems
- ✓ External | under insulation inspections
- ✓ Scope for thickness measurement / data analysis
- ✓ Inspection for small diameters, dead sections
- ✓ Inspection and maintenance of pressure relief devices

Module 6: Inspection data analysis | Evaluation

- ✓ Corrosion rate determination
- ✓ Remaining life calculations
- ✓ Newly installed piping systems | change in service
- ✓ Existing and replacement piping
- ✓ Calculation of minimum required thickness | MAWP
- ✓ Assessment of inspection results | reports
- ✓ Piping stress analysis
- ✓ Inspection recommendations for repair or replacement
- ✓ Piping failure and leak reports
- ✓ Inspection deferral, examinations and tests

Module 7: Repair, alteration, re-rating

- ✓ Welded and non-welded temporary and permanent repairs
- ✓ Welding and hot tap

Module 8: Inspection of buried piping

- ✓ Above-grade visual surveillance
- ✓ Close-interval potential survey
- ✓ Pipe coating Holiday survey
- ✓ Repairs to buried piping systems