

API 510 Pressure Vessel Inspection



ABOUT THIS COURSE

Progressive corrosion deteriorates pressure retaining walls to such an extent that there is always a threat of major break down which may lead to fire or some time to explosion. To avoid such accidents API has developed systematic ways to carry out 'In-service Inspection' to determine rate of corrosion and the remaining life of the equipment and piping.

OBJECTIVES

- Knowledge and expertise that required for maintenance, rating, inspection, repair and alteration of in-service pressure vessel
- Information of API Individual Certification Program and API 510 Inspector certification process
- Practical test that simulating the API 510 ICP exam
- Competence and confidence to finally achieve API 510 ICP qualification

COURSE CONTENT

- Detailed explanations of all the information covered in the API 510 'Body of Knowledge' including ASME welding requirements for pressure vessels section IX and VIII
- ASME non-destructive testing principles and application of Section V
- Pressure vessel design review SME Section VIII, weld sizes, vessel nozzle reinforcement, brittle fracture, weld efficiency factors, post weld heat treatment
- Pressure relieving devices, valves, bursting discs, setting, testing and inspection; API 510 inspection, repair and rerating of vessels, inspection intervals, inspection requirements, relationships to ASME codes. Corrosion, minimum thickness determination and remaining life calculations
- Inspection and degradation mechanisms of pressure vessels, corrosion and cracking mechanisms
- Erosion, common corrodents, hydrogen and H₂S damage, alloy degradation

WHO SHOULD ATTEND

Piping inspection engineers and managers, Inspection personnel, operating engineers and managers, who wish to sit for API 510 examination. Maintenance engineers and technicians and people involved in trouble shooting of plant operations.

validity

3 Years

DURATION

1 Week

LOCATION

Malaysia



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