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API 653 Aboveground Tank Inspection

ABOUT THIS COURSE

The American Petroleum Institute initiated an Above Ground Storage Tank Inspector Certification Program with the issuance of Supplement 1 to API 653, Tank Inspection, Repair, Alteration, and Reconstruction. The program was developed with the participation storage tank owner/users, and establishes a uniform national program that will assist state and local governments in above ground storage tank regulations.

WHO SHOULD ATTEND

Tank inspection engineers and managers, Inspection personnel, operating engineers and managers and for those who wish to sit for API 653 examination. Maintenance engineers and technicians and people involved in trouble shooting of plant operations

LOCATION

Malaysia

DURATION

1 Week

OBJECTIVES

The course provides participants with the knowledge necessary to:

- Successfully pass the API 653 storage tank inspector certification exam
- Effectively use major codes, API 650 and ASME B&PV Sections V & IX
- Perform all tank calculations needed for the API exam (e.g. tmin, MRT, max settlement, MDMT, corrosion rates, remaining life, etc.)
- Use API's requirements during inspection, repairs, and alterations of tanks
- Review welding procedures (WPS/PQR) and welder performance qualifications (WPQ)

COURSE CONTENT

Detailed explanations of all the information covered in the API 653 'Body of Knowledge' including ASME welding requirements for storage tanks sections IX and API 650; ASME non-destructive testing principles and application of section V; storage tank design review API 650, weld sizes, tank nozzle reinforcement, brittle fracture, weld efficiency factors, post weld heat treatment; API 653 inspection, repair alteration and reconstruction of tanks, inspection intervals, inspection requirements, relationships to ASME codes. Corrosion, minimum thickness determination and remaining life calculations; inspection and degradation mechanisms of API 575, cathodic protection and internal coatings for storage tanks. Safety and preparation issues on tank floors for repair.

VALIDITY

3 Years