

API 570 Certification Preparation



Course Length: Six full days (60 hrs)
Cost: \$1300
Instructor: Mark Smith, Reggie Thomson or Keith Devall

This class is designed for pressure equipment inspectors and engineers working in refineries, chemical plants, gas plants, pipeline terminals, and oil fields. This course is also useful for maintenance supervisors involved in welding pipe.

Course Overview

The course prepares the student for the API 570 exam. The course is an intensive one-week course with a heavy emphasis on the use of the codes and mathematical calculations. This course content includes:

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|-----------------------|---------|-----------------|----------|
| • Using B31.3 | 0.5 day | • API 570 | 1.5 days |
| • Piping Calculations | 1 day | • B16.5 & other | 1.5 days |
| • Section IX Welding | 1 day | • Exam | 0.5 day |

Objectives

The course provides participants with the knowledge necessary to:

- Successfully pass the API 570 piping inspector certification exam
- Effectively use major codes: ASME B16.5 & B31.3; ASME B&PV Sections V & IX
- Perform all basic vessel calculations needed for the API exam (e.g. t_{min} , test pressure, MAWP, MDMT, corrosion rates, remaining life, etc.)
- Use API's requirements during inspection, repairs, and alterations of piping
- Review welding procedures (WPS/PQR) & welder performance qualifications (WPQ)

Class Participants

Those taking the API exam should have 3 years of experience at a petrochemical facility and have at least 1 year of inspection experience. There are no required class prerequisites.

Notes

This is an intense course with daily homework and a final exam (similar to the API 570 exam). We recommend the student stay at the class hotel. To obtain application for API 570 certification, see: www.api.org/icp

Bring to Class

Students should bring to class: a calculator, a straight edge (or triangle), pencils, highlighters, lots of questions, and a "can-do" attitude. Also, participants must bring the appropriate codes required for the API exam (see API web-site: www.api.org/icp)

Required Codes for Exam

ASME Sect V - Non-Destructive Examination
ASME Sect - IX Welding Qualifications
ASME B16.5 - Flanges & Flanged Fittings
ASME B31.3 - Process Piping Fabrication

API 570 Piping Inspection Code
API 571 Material Degradation Mech.
API 574 Inspection of Piping Components
API 576 Inspection of Pressure-Relieving Devices
API 577 Welding Inspection
API 578 Material Verification Program

Note: See API website www.api.org/icp to determine which editions are used on the exam.