

API 510 Certification Preparation



Course Length: Six full days (60 hrs), with optional evening study sessions
Cost: \$1100
Instructor: Mark Smith

This class is designed for pressure equipment inspectors and engineers working in refineries, chemical plants, gas plants, pipeline terminals, and oil fields.

Course Overview

The course prepares the student for the API 510 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 Section VIII | 1 day | • API 510 | 1 day |
| • Vessel Calculations | 2 days | • Other | ½ day |
| • Section IX Welding | 1 day | • Exam | ½ day |

Objectives

The course provides participants with the knowledge necessary to:

- Successfully pass the API 510 pressure vessel inspector certification exam* (*see our guarantee*)
- Effectively use major codes: ASME B&PV Sections V, VIII, & IX
- Perform all basic vessel calculations needed for the API exam (e.g. t_{min} , test pressure, MAWP, static head, MDMT, corrosion rates, remaining life, etc.)
- Use API's requirements during inspection, repairs, and alterations of pressure vessels
- Review welding procedures (WPS/PQR) and welder performance qualifications (WPQ)

Class Participants

Students 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 510 exam). A study guide is issued to direct participant's pre-class study. We recommend the student stay at the class hotel.

To obtain application for API 510 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 B&PV Codes:

Section V Non-Destructive Examination
Section VIII Construction of Pressure Vessels
Section IX Welding Qualifications

API Codes:

API 510 Pressure Vessel Code
API 571 Degradation Mechanisms
API 572 Inspection of Pressure Vessels
API 576 Inspection of Pressure-Relieving Devices
API 577 Welding Inspection

Note: See the API website www.api.org/icp to determine which editions will be used for your exam.