

API 653 Certification Preparation



Course Length: 6 days (60 hrs), with optional evening study sessions
Cost: \$1200
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. This course is also useful for tank maintenance and key operation personnel.

Course Overview

The course prepares the student for the API 653 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 API 650 | 1 day | • API 653 | 2 day |
| • Tank Calculations | ½ day | • Other | 1 day |
| • Section IX Welding | 1 day | • Exam | ½ day |

Objectives

The course provides participants with the knowledge necessary to:

- Successfully pass the API 653 storage tank inspector certification exam* (*see our guarantee*)
- Effectively use major codes, API 650 and ASME B&PV Sections V & IX
- Perform all tank calculations needed for the API exam (e.g. t_{min} , 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)

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 653 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 653 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

API Codes:

API 571 Degradation Mechanisms (partial)
API 575 Inspection of Tanks
API 577 Welding Inspection
API 650 Tank Fabrication
API 651 Cathodic Protection

API Codes:

API 652 Lining of Tank Bottoms
API 653 Tank Inspection Code

ASME B&PV Codes:

Section V Non-Destructive Examination
Section IX Welding Qualifications

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