

API 653 Certification Preparation



Course Length: Six full days (60 hrs)
Cost: \$1300
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 | 2.5 days |
| • Tank Calculations | 0.5 day | • Other | 1 day |
| • Section IX Welding | 1 day | • Exam | Take Home |

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. 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) & 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 653 exam). 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 571 Degradation Mechanisms (partial)	API 652 Lining of Tank Bottoms
API 575 Inspection of Tanks	API 653 Tank Inspection Code
API 576 Relief Devices (partial)	ASME Sect V - NDE (partial)
API 577 Welding Inspection	ASME Sect IX Welding Qualifications
API 650 Tank Fabrication	
API 651 Cathodic Protection	

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