

API 510 PRESSURE VESSEL INSPECTOR CERTIFICATION PREPARATION COURSE

Topic	American Petroleum Institute (API) 510 Pressure Vessel Inspector Preparation Course
Duration	Eight (08) hours per day for Six (06) Days Five (05) days Classroom Coaching and One (01) day for Mock-up Examination One (01) day for Official API Administered Examination (OPTIONAL)

1. COURSE DESCRIPTION

- The main emphasis of this programme is on improving and ensuring safety through the use of owner / user or third-party inspectors specialised in pressure equipment in a manner that protects employees, the public, and the environment.
- The course also provides the understanding of the fabrication, inspection and testing portions of ASME Section VIII Division 1 for new construction and how they work with API 510 for post construction inspection, repairs and alterations.
- It provides the oil, gas, petrochemical and other process industries with the assurance that pressure vessel inspectors trained and certified under this internationally recognized programme have the required knowledge and experience for the job in the field.
- Course participants aspiring to be certified by American Petroleum Institute will undergo a rigorous programme to get them well versed with the various code books and standards, including API Standards that cover maintenance, inspection, rating, repair and alteration of pressure vessels.

2. COURSE CONTENT

- Facilitator lead classroom training modules with study of API and ASME Codes
- Reviewing example problems and solutions
- Solving practice problems and reviewing detailed solutions
- There will be quizzes throughout the course.
- There will be reading and take home assignments
- There will be **API 510 Mock-up Examination** at the end of the course

3. REFERENCE MATERIALS

- **API Standard 510** : Pressure Vessel Inspection Code: In-Service Inspection, Rating, Repair, and Alteration
- **API Recommended Practice 571** : Damage Mechanisms Affecting Fixed Equipment in the Refining Industry
- **API Recommended Practice 572** : Inspection of Pressure Vessels
- **API Recommended Practice 576** : Inspection of Pressure-Relieving Devices
- **API Recommended Practice 577** : Welding Inspection and Metallurgy
- **American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code**
 - Section V, Nondestructive Examination
 - Section VIII, Rules for Construction of Pressure Vessels, Division 1
 - Section IX, Welding and Brazing Qualifications, Welding only

NOTE : Participants are required to bring their own **HARDCOPY VERSION of the Reference Materials stated above and **CALCULATOR****

4. LEARNING OUTCOME

The course will provide participants with the knowledge necessary to:

- Successfully pass the applicable API inspector certification exam
- Be familiar with API 510 exam format and it's questions
- Effectively use major codes: American Petroleum Institute and ASME Boiler and Pressure Vessel Code
- Perform basic calculations needed for the API exam (e.g. t_{min} , Test Pressure, Maximum Allowable Working Pressure, Static Head Pressure, Minimum Design Metal Temperature, Corrosion Rates, Remaining Life, Inspection Interval etc.)
- Be able to use Codes to find information needed
- Use API's requirements during inspection, repairs, and alterations
- Review and evaluate Welding Procedures (WPS / PQR) and Welder Performance Qualifications (WPQ)

5. TARGET AUDIENCE / WHO SHOULD ATTEND

- **NO Course pre-requisites requirement.** However, participants who wish to sit for the API exam should have an experience stated below.
- Personnel working in the oil, gas and petrochemical industry, and who are involved in the design, procurement, engineering construction, operation, maintenance and inspection of pressure vessel and related facilities.
- Inspectors, engineers, maintenance and QA/QC personnel who work for owner-user companies, inspection companies, fabricators, maintenance service and repair companies, and EPC's from petrochemical plants, refineries, power plants, gas / oil pipeline companies, and palm oil mills

6. BASIC ENTRY / QUALIFICATION REQUIREMENTS FOR API 510 EXAMINATION (OPTIONAL)

Education	Minimum Experience Required	Skills in any of the elements stated
BSc or higher degree in Engineering	1 year	Supervision or performance of pressure vessel inspection activities
Diploma or certificate in engineering or technology	2 years	Design, construction, repair, operation, or inspection of pressure vessels, of which one year must be in supervision or performance of inspection activities.
High school certificate or equivalent	3 years	Design, construction, repair, operation, or inspection of pressure vessels, of which one year must be in supervision or performance of inspection activities.
None	5 or more years	Design, construction, repair, operation, or inspection of pressure vessels, of which one year must be in supervision or performance of inspection activities

7. COURSE FEES

RM3,000.00 per participant

- **INCLUSIVE** of Course Presentation Materials and Certificate of Completion
- **EXCLUDING** Official API Administered Examination Fee (Current Fee : **USD900.00** per person)
- **COMPLIMENTARY Revision Class : LAST SPRINT**, prior to official API 510 Examination (terms applied)
- All payments must be received **10 DAYS** prior to the event date for confirmation to be issued

8. TERM OF PAYMENT

Cheque / Bank-in : **INSTECH SERVICES : BANK MUAMALAT : 1202-0002849-71-4**
Please include a copy of the bank-in / wire / electronic transaction with your registration form

9. ADMINISTRATIVE DETAILS

- Transportation and Accommodation not provided
- Confirmation of participation will be sent via **EMAIL** upon receipt of registration form and payment

10. COURSE VENUE

INSTECH SERVICES
No. 4-2, Jalan Klang Sentral KS 4/KU5
Klang Sentral, Bukit Raja Meru
41050 Klang
Selangor Darul Ehsan

TEL : 019 - 322 3375
FAX : 03 – 3343 1973
EMAIL : instech@consultant.com

GPS Coordinate : Longitude : 101.44056 East Latitude : 3.11128 North

11. DISCLAIMER

The Training Provider reserves the right to make alternative arrangement to the Course Contents, Date, Trainer, Venue or Fee if the needs arise due to unforeseen circumstances.

12. GUARANTEE

Our trainee who is unsuccessful in obtaining API 510 certification, will be offered **50% discount** to attend this course again within the next 12 months, provided **ALL** of the following criteria are met:

- **FULL** attendance during the classroom training
- **COMPLETED** the Class Mock-up Examination
- **RETURN** the completed Post-Training materials

REGISTRATION FORM

API 510 PRESSURE VESSEL INSPECTOR CERTIFICATION PREPARATION COURSE

PLEASE EMAIL TO : instech@consultant.com

NAME _____

IDENTITY CARD NO _____

JOB TITLE _____

COMPANY NAME _____

COMPANY ADDRESS _____

TELEPHONE NO _____

EMAIL _____

GENERAL INFORMATION

COURSE FEE

RM3,000.00 per participant

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COURSE SCHEDULE

22-27 FEBRUARY 2014 (6 DAYS)

9:00 am - 6:00 pm

WHAT TO BRING

Participants are required to bring their own **PRINTED VERSION** of the Reference Materials stated above, **CALCULATOR** and **NOTEBOOK COMPUTER**

NEAREST HOTEL

- 1st INN HOTEL (03 - 3341 3111 / 3344 3111)
- NEWTOWN STAR HOTEL (03 - 3343 8000)
- DOUBLE STAR HOTEL (03 - 3362 1327)

ABOUT THE FACILITATOR

Ir. Syed Fadzil Syed Mohamed is a Registered Professional Engineer (P.Eng) with the Board of Engineers Malaysia (BEM). He is also a Corporate Member of the Institution of Engineers Malaysia (MIEM). He received his B.Eng (Honours) degree from University of Paisley, Scotland, United Kingdom

He is an Authorised American Petroleum Institute (API) for In-Service Pressure Vessel (510) and Aboveground Storage Tanks (653). He is also a certified National Board of Boiler and Pressure Vessel Inspectors (Georgia, USA)

His work experience and passion includes :

- Pressurised Equipment Inspection
- Vendor Inspection, Audit and Assessment
- Fitness For Service Assessment
- Materials Characterisation and Selection
- Failure Investigation and Analysis

**THANK YOU FOR YOUR
REGISTRATION**

Please include a copy of bank-in / wire / electronic transaction record with your registration form