



API 510 **DASH D** Inspectorate Pvt. Ltd

8 Pressure vessel Inspector Days Training Course

Course Description

This course gives a broad knowledge about “In-Service Inspection of pressure vessel” and prepares students for the API 510 Exam. The course is an intensive one-week course with a Special emphasis on the use of the related codes and Calculations.

This course content includes:

- ◆ API 510 ◆ API 571 ◆ API 572 ◆ API 576 ◆ API 577
- ◆ ASME B31.3 ◆ ASME B16.5 ,ASME V,IX,VIII DIV 1

Class Participants

Students should have 3 years of experience at a petrochemical or industrial facility and have at least 1 year of inspection experience.

However, participants who do not meet this requirement are also welcomed to attend this Training to further their knowledge in the related areas.

Class Participants

The scheduled dates for API 510 Inspector Certification Examination is as below:

Course Description

- The course provides participants with the knowledge necessary to:
- ◆ Successfully pass the API 510 piping inspector certification exam
 - ◆ Effectively use major codes: ASME VIII DIV 1; ASME B&PV Sections V & IX
 - ◆ Perform all basic piping calculations needed for the API exam (e.g. tmin, 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) and welder performance qualifications (WPQ)

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.

Who should join

Pressure vessel inspection engineers and managers, Inspection personnel, plant operating engineers and managers, who wish to appear for API 510 examination. Maintenance engineers and technicians and people Involved in trouble shooting of plant operations.

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.

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 Post Box 45978, Burdubai ,DUBAI- UAE,
 Contact: landline :9143554979, Mobile: 0508692438
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8 Pressure vessel Inspector

Days Training Course

Tentative training schedule

DAY 1

1) Welcome & Introduction

2) ASME B & PV Section VIII Div 1 – Code

Learn the followings:

- ◆ Purpose of the code
- ◆ Scope of the code
- ◆ Organization of the code
- ◆ Roles specified by the code
- ◆ Qualification requirements by the code
- ◆ Terms and definition

3) API 510 Sections 1-4

- ◆ Purpose of API 510
- ◆ Scope of API 510
- ◆ Responsibilities defined in API 510
- ◆ Inspection Types & Intervals
- ◆ Tips on how to memorize information in API Codes

Evening Session: ASME SEC VIII and API 510 Homework
Practice all Calculations covered in Class.

- ◆ Question and Answer session

DAY 2

1) ASME B & PV Section VIII Div 1

Includes understanding:

- ◆ Vessel MAWP
- ◆ Vessel part MAWP
- ◆ Stress- Longitudinal and circumferential
- ◆ Types of joints
- ◆ Weld joint categories
RT and E factor

2) ASME VIII– Calculations & Charts

Learn how to determine:

- ◆ Static Head Pressure
- ◆ Vessel MAWP
- ◆ Minimum Thickness of shells,heads
- ◆ Joint efficiency
- ◆

Evening Session: ASME SEC VIII & API 510 Homework
Practice all Calculations covered in Class.
◆ Question and Answer session

DAY 3

1) Review Last day

2) ASME B & PV VIII DIV 1

Includes understanding:

- ◆ Basic concepts of Pressure Testing
- ◆ Brittle fracture
- ◆ Fabrication Requirements

Calculations & Charts

Learn how to determine:

- ◆ Min Thk of formed head
- ◆ Minimum Thk of flat head
- ◆ Vessel part MAWP for shell and Formed heads
- ◆ Hydro test Requirements
- ◆ Pneumatic test Requirements
- ◆ Vessel MDMT Requirements
- ◆ IMPACT test Requirements

Evening Session: ASME SEC VIII DIV 1 and API 510 Homework
Practice all Calculations covered in Class

DAY 4

1) ASME B&PV Section VIII Code

Understand the following key concepts.

- ◆ Fillet weld terms and nozzle reinforcement

2) API 510 SECTION 5-6 Review and Evaluate

Understand

- ◆ Corrosion mechanisms
- ◆ Fitness for service evaluation
- ◆ Inspection types and Requirements
- ◆ Inspection intervals
- ◆ Pressure testing Requirements
- ◆ Inspection of relief devices

Evening Session: Section VIII and API 510 Homework.
◆ Question and Answer session

DAY 5

2) ASME B&PV Section IX Review and Evaluate a WPQ (Welder Qualification). Understand

- ◆ Essential Variables for welder qualification
- ◆ Testing required for welder qualification

3) ASME B&PV Section IX - Welding Code

Understand the following key concepts

- ◆ Weld Procedure Qualification Process and Restrictions

4) WPS/PQR Review (Weld Procedure)

◆ Evaluate a WPS with the associated PQR

5) API 577 – Welding Inspection & Metallurgy

Evening Session: Section IX Homework. Evaluate one WPQ. API 510 Homework. Also, complete the API 578 Self-Study Module

- ◆ Question and Answer session

DAY 5

1) ASME B&PV Section IX - Welding Code

Purpose of the Code

- ◆ Roles of the Welding Inspector
- ◆ Organization of the Code
- ◆ Welding Positions – Test and Field
- ◆ Testing Requirements and Acceptance Criteria
- ◆ Welder Qualification Process and Restrictions
- ◆ Tips on how to find information in the Code

|| TRAINING SERVICES ||

DASH D
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DASH OFFICES: BARODA, AHMEDABAD, SURAT, MUMBAI, PUNE, DELHI, JAIPUR, INDORE, KOLKATA, CHENNAI, COCHIN, PONDICHERRY, TRICHY, HYDERABAD, BANGALORE.

DASH OPERATION: USA, SINGAPORE, NIGERIA, THAILAND, QATAR, UAE, SAUDI ARABIA, BRUNEI, MALASIA, PHILIPPINES, INDONESIA.

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Tentative training schedule

DAY 6 : Revision previous day

1) ASME B&PV Section V – NDE

Understand the following key concepts.

- ◆ Purpose of the Code
- ◆ Organization of the Code
- ◆ RT Techniques
- ◆ Purpose & Selection of IQI's
- ◆ RT Film Density Requirements
- ◆ Key terms discussed in the Code
- ◆ Tips on how to find information in the Code
- ◆ Question and Answer session

3) API 571 - Damage Mechanisms in the Refinery Industry

Evening Session: ASME Section V & 571 Homework.

DAY 7 : API 510 sec 7 Repairs and alterations Extensive one Day all TOPICS in code

API 576 : Relief Devices

◆

DAY 8

1) Course Review

2) Practice Exam – Exam is similar to the API 510 exam

Required codes for exam

(Participants must bring the appropriate codes required for the API exam)

ASME Codes:

- ◆ B&PV Section VIII DIV I Boiler and Pressure Vessel Code
- ◆ B&PV Section V Non-Destructive Examination
- ◆ B&PV Section IX Welding Qualifications

Note: See website www.dashinspectorate.com to determine which editions will be used for your exam.

ORIGINAL Codebooks can be obtained from DIPL at 5% Concession cost

API Codes:

- ◆ API 510 Pressure vessel code
- ◆ API 572 Inspection of Pressure vessels
- ◆ API 576 Inspection of Pressure relieving devices
- ◆ API 571- Damage Mechanisms in the Refinery Industry
- ◆ API 577- Welding Inspection & Metallurgy

Instructor Profile

◆ Professional Qualifications :

- ◆ Bachelor of Engineering: B.E. (Metallurgy),
- ◆ API 510 – Authorized Pressure Vessel Inspector
- ◆ API 570 – Authorized Piping Inspector
- ◆ API 653 – Authorized Above storage Tank Inspector
- ◆ AWS CWI, CWE (Certified welding educator)
- ◆ ASNT NDT Level III (RT, UT, MT, VT, PT)
- ◆ Lead Auditor ISO 9000,14000,18000

Memberships of Professional Organizations:

- ◆ ASNT ;American Society for Non Destructive Testing
- ◆ AWS ;American Welding Society
- ◆ ASME

Experience: EXTENSIVE

Present Job: Director/ Principal Trainer
M/s DASH INSPECTORATE PVT LTD
.Responsibilities handled includes Third Party Inspection. Plant inspection during shut-downs, Inspection during fabrication Welding inspection & NDT consultancy



RBI Experience:

Gone through specialized trainings in RBI and presently doing trainings in RBI and Integrity Assessment. Also member of RBI Study group for well known Oil Refineries in India.



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REGISTRATION FORM

Name :

Company name :

Department :

Address :

Tel : Email :

Please Tick accordingly,
Download Application:

Please fax / email your completed
Form or for further information,
Email: dash@dashinspectorate.com

AWS	NDT		API	ISO	CORROSION	Safety
Training Time	Training Time		Training Time	Training Time	Training Time	NEBOSH /IOSH
Every month	Level II Every month	Level III Every 3 months	Feb, May, Aug, Nov.	Every month	Every month	FOOD Inspector First Aid
Exam schedule	Exam Schedule		Exam schedule	Exam schedule	Exam schedule	PPE Etc
Every month	Level II Every month	Level III Every 3 month	Every next month	Every month	Every month	Every month course and exam

|| TRAINING SERVICES ||

DASH D
Inspectorate Pvt. Ltd

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REGISTRATION FORM



API Individual Certification 2015 Exam Dates & Deadlines

[Go To Certification Programs](#)

Exam Window	Program	Schedule	Application Deadline
January 16 - 30, 2015	510	7 hours	November 21, 2014 <i>Extended: Nov 30, 2014</i>
February 13 - 27, 2015	570	7 hours	December 19, 2014 <i>Extended: Dec 31, 2014</i>
March 20 - April 3, 2015	653	7 hours	January 23, 2015 <i>653, TES Extended: Jan 31, 2015</i>
	TES	4 hours	
	1169	3 hours	
April 17 - May 1, 2015	936, 571, 577, 580, SI	4 hours	February 20, 2015
May 15 - 29, 2015	510	7 hours	March 20, 2015
June 5 - 19, 2015	570	7 hours	April 10, 2015
July 3 - 17, 2015	653	7 hours	May 8, 2015
	TES	4 hours	
	1169	3 hours	
August 14 - 28, 2015	936, 571, 577, 580, SI	4 hours	June 19, 2015
September 4 - 22, 2015	510	7 hours	July 10, 2015
October 16 - 30, 2015	570	7 hours	August 21, 2015
November 6 - 20, 2015	653	7 hours	September 11, 2015
	TES	4 hours	
	1169	3 hours	
December 9 - 23, 2015	936, 571, 577, 580, SI	4 hours	October 14, 2015

January 27, 2015

NOTE : EXAM WILL NOW BE COMPUTER BASED INSTEAD OF HARD COPY EXAMINATION

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