

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

## 8 PV Inspector 8 Days Training Course

### REGISTRATION FORM

#### API CERTIFICATION EXAM DATES AND DEADLINES – 2014

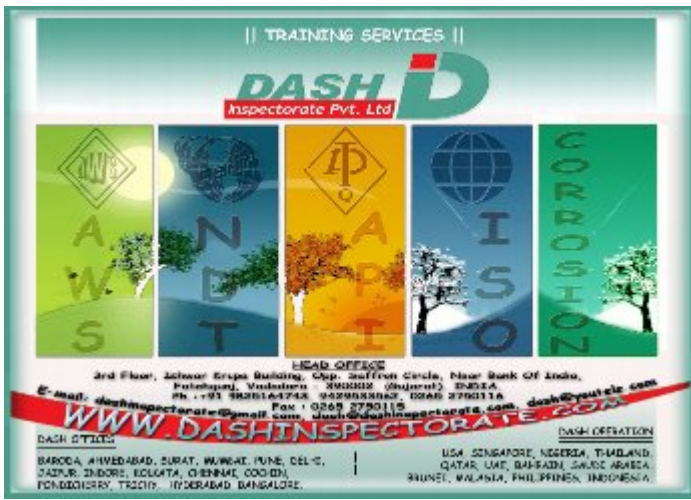
Exam Window	Program	Schedule	Application Deadline
March 21 – 31, 2014	653	7 hours – Full Day	January 10, 2014
	TES	4 hours – half day	
April 22 – 30, 2014	936, 571, 577, 580, SI	4 hours – half day	February 10, 2014
May 16 – 25, 2014	510	7 hours – Full Day	March 7, 2014
June 20-30, 2014	570	7 hours – Full Day	April 11, 2014
July 18 – 28, 2014	653	7 hours – Full Day	May 9, 2014
	TES	4 hours – half day	
August 15 – 25, 2014	936, 571, 577, 580, SI	4 hours – half day	June 6, 2014
September 19 – 29, 2014	510	7 hours – Full Day	July 11, 2014
October 17 – 27, 2014	570	7 hours – Full Day	August 8, 2014
November 14-24, 2014	653	7 hours – Full Day	September 5, 2014
	TES	4 hours – half day	
December 12 – 22, 2014	936, 571, 577, 580, SI	4 hours – half day	October 3, 2014

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

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# API 510 **DASH** 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.



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

## 8 Pressure vessel Inspector

# 8 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

### 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