



# DASH CWI **DASH D** Inspectorate Pvt. Ltd

## 6 Days Welding Inspector Training Course

### Course Description

This course gives a broad knowledge about “WELDING ” and prepares students for the DASH CWI,SCWI,CAWI Exam. The course is an intensive one-week course with a Special emphasis on the use of the related codes and Calculations.

Course has 3 modules : Part A : theory , Part B : Practical's Part C : Code Book

This course content includes:

- ◆ DASH WIT◆ API 1104◆ BOOK OF SPECIFICATION

### Course Description

The course provides participants with the knowledge necessary to:

- ◆ Successfully pass the DASH WELDING inspector certification exam
- ◆ Effectively use major codes: API 1104 , ANY OTHER WELDING CODES ,ASME B&PV Sections V & IX
- ◆ Perform all basic WELDING practical s needed for the DASH
- ◆ Use DASH requirements during inspection, repairs, and alterations in welding in any industry
- ◆ Review welding procedures (WPS/PQR) and welder performance qualifications (WPQ)

Exam is divided in Part A- 150 , PART B – 45 and PART C -60 questions :Exam duration 2 hours each

### Class Participants

MINIMUM EDUCATION	MINIMUM WORK EXPERIENCE
Associate or higher degree in engineering technology, engineering, or a physical science	3 years
High school diploma plus two or more years engineering/technical school courses	3 years
High school diploma plus one year engineering/technical school courses or one or more years of vocational education and training in a welding curriculum	4 years
High school diploma or approved high school equivalency diploma	5 years
At least 8th grade	9 years
Less than 8th grade	12 years

### Notes

This is an intense course with daily homework and a final exam (similar to the DASH exam). A study guide is issued to direct participant’s pre-class study.

### Who should join

Inspection engineers and managers, Inspection Personnel, plant operating engineers and managers, Who wish to appear for DASH examination? Maintenance engineers and technicians and people Involved in trouble shooting of plant operations. Inspectors, technologists, engineers, or experienced welders and welding supervisors who are involved in new welding fabrication, repairs, alteration, or inspection of welded pressure equipment. It will also assist API 510 and 570 inspectors who plan to challenge the CSA W178.2 practical exam to become a Level 2 inspector.

### Bring to Class

Students should bring to class: a calculator, a straight edge, 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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# DASH CWI **DASH D** Inspectorate Pvt. Ltd

## 6 Welding Inspector Days Training Course

### Tentative training schedule

#### DAY 1 SESSION 1 AWS PART A WIT

- 1) Welcome & Introduction
- 2) AWS PART A WIT

##### MODULE 1 : Welding Inspection and certification

- ◆ Welding Inspection and certification
  - ◆ What is CWI,CAWI,SCWI
  - ◆ ETHICS of CWI
  - ◆ Definations
  - ◆ Other personeel certification programmes
- Work book question and answers

#### 3) Module 2 :Safe practices for welding inspector

- ◆ Introduction
  - ◆ Eye and face protection
  - ◆ Protective clothing
  - ◆ Noise and machinery guards
  - ◆ Fumes gases and exposure factors
- Introduction
- ◆ Respiratory devices
  - ◆ Handling compressed cylinders
  - ◆ Manifolds
  - ◆ Key terms and definition
- Work book question and answers

#### DAY 1 SESSION 2

##### 1) Module 3 :Metal Joining and cutting process

- 5) Includes understanding:
  - ◆ Welding process : SAW
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld
- 2) Includes understanding:
  - ◆ Welding process : ELECTROSLAG welding
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld
- 3)Includes understanding:
  - ◆ Welding process : OFW
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld

#### DAY 1 SESSION 2

##### 1) Module 3 :Metal Joining and cutting process

- 1 ) Includes understanding:
  - ◆ Welding process : SWAW
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld
- 2) Includes understanding:
  - ◆ Welding process : GTAW
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld
- 3)Includes understanding:
  - ◆ Welding process : GMAW
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld
- 3)Includes understanding:
  - ◆ Welding process : GMAW
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld
- ◆ Type of materials it can weld
- 4)Includes understanding:
  - ◆ Welding process : FCAW
  - ◆ Process , advantage ,disadvantage
  - ◆ Type of materials it can weld

#### DAY 1 SESSION 3

##### 1) Module 3 ; Cutting brazing and soldering

- Understand the key concepts
- ◆ Brazing types and testing
- ##### 2) Cutting types
- ◆ PAW,OFC,ARC
  - ◆ Question and Answer session

#### DAY 1 SESSION 5

**MOCK UP QUESTION PAPER NO 1**  
**2 HOURS 150 QUESTIONS**

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### DAY 2 SESSION 1

#### 1) ASME B&PV Section IX - Welding Code

Understand the following key concepts.

- ◆ 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

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

- ◆ Essential Variables for welder qualification
- ◆ Testing required for welder qualification
- Evaluate a WPS with the associated PQR
- ◆ Question and Answer session

#### 3) MATERIAL testing DT

Tensile, Bend, impact, hardness

#### 4) MATERIAL TESTING NDT

UT, RT, MT, PT, VT

#### 5) METRIC CONVERSIONS

#### 6) HEAT TREATMENT

Annealing, normalizing, quenching, tempering, stress relieving, solution annealing

### DAY 2 SESSION 2

#### MOCK UP QUESTION PAPER NO 2

2 HOURS 60 QUESTIONS

#### REVIEW OF ANSWERS AND DISCUSSION

- ◆ Question and Answer session

### DAY 3 SESSION 1 PART C API 1104

#### MOCK UP QUESTION PAPER NO 1

2 HOURS 60 QUESTIONS

#### REVIEW OF ANSWERS AND DISCUSSION

- ◆ Question and Answer session

### DAY 6 BREAK FOR SELF STUDY

PART A ,PART B ,PART C

### DAY 3 SESSION 2

#### 1) PART C Code book API 1104 latest edition errata 2008

- General,specification,definations
- Qualification of welding procedures for welds containing filler metal additions
- Qualification of welders
- Design and preparation of joints
- Inspection and testing of production welds
- Acceptance standard for nondestructive testing
- Repair and removal of defects
- Procedure for nondestructive testing
- Mechanized welding with filler metal additions
- Automatic welding without filler metal additions
- Appendix A: Alternative acceptance standards for girth welds

### DAY 3 SESSION 3 PART C API 1104

#### MOCK UP QUESTION PAPER NO 2

2 HOURS 150 QUESTIONS

#### REVIEW OF ANSWERS AND DISCUSSION

- ◆ Question and Answer session

### DAY 4 SESSION 1 PART B PRACTICALS

#### 1) BOOK OF SPECIFICATION

Understand the following key concepts.

- ◆ Purpose of the spec, Tools and sample illustrations
- ◆ Roles of the Welding Inspector
- ◆ Organization of the SPEC
- ◆ Welding Positions – Test and Field
- ◆ Testing Requirements and Acceptance Criteria
- ◆ Welder Qualification Process and Restrictions
- ◆ Tips on how to find information in the specification

### DAY 4 SESSION 2 PART B Practicals

#### MOCK UP QUESTION PAPER NO 1

2 HOURS 46 QUESTIONS

#### REVIEW OF ANSWERS AND DISCUSSION

- ◆ Question and Answer session

### DAY 5 SESSION 1 PART B Practicals

Revision of practical's and illustration of tools and tackles

### DAY 5 SESSION 2 PART B Practicals

#### MOCK UP QUESTION PAPER NO 2

2 HOURS 150 QUESTIONS

#### REVIEW OF ANSWERS AND DISCUSSION

- ◆ Question and Answer session

|| TRAINING SERVICES ||

**DASH D**  
Inspectorate Pvt. Ltd



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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.

DASH CWI **DASH D**  
Inspectorate Pvt. Ltd

# 6 Days Training Course

Welding inspector

## 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](mailto:dash@dashinspectorate.com)

VISIT [website for more details](http://www.dashinspectorate.com)  
[WWW.DASHINSPECTORATE.COM](http://www.dashinspectorate.com)

### DASH OTHER COURSES FOR YOUR PARTICIPATION

API 510 : PRESSURE VESSEL INSPECTOR, API 570: PIPING INSPECTOR, API 653: TANKAGE INSPECTOR, ASNT NDT LEVEL III : UT, RT, PT, VT, MT :: QA/QC ENGINEER COURSE

SHUTDOWN INSPECTION ( Refinery, Nuclear), NDT LEVEL II RT, UT, MT, PT, VT

CRANE HANDLING ( Operation, Rigging etc), WELDERS TRAINING and certification TILL 6 G

CODE CLINIC AWS D1.1

ASME SEC IX, ASME SEC VIII, ASME SEC V, ASME SEC II,

## 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,

M/s DASH INSPECTORATE PVT LTD  
.Responsibilities handled include 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.