



## INDTT announces Certified Welding Inspector Seminar for AWS –CWI Examination

THIS COURSE WILL COMPLETELY HELP PREPARE YOUR CANDIDATE TO GET THROUGH THE AWS – CWI EXAMINATION.

### COURSE DATE

29<sup>TH</sup> June

4<sup>H</sup> July 2014

Navi Mumbai ( India )

**All examination questions are multiple choices, and each part of the exam (administered separately) must be completed in two hours. A description of each part follows**

#### **Part A: Fundamentals**

Closed book test; 150 questions.

#### **Part B: Practical**

Hands-on test; 46 questions; using AWS book of specifications...

#### **Part C: Open Code Book**

Open book test; 46 questions on the code you previously selected.

## Certified welding inspector course Course Contents

- Introduction to welding concepts
- ASME family of standards.
- ASME SEC IX requirements
- History and development of STANDARDS
- Safe practices for welding inspectors
- Metal joining and cutting process
- Establishing the WPS,PQR,WPO
- Welding Process in detail
- Introduction to Welding Symbols
- Weld joint geometry and welding symbols
- Welding metallurgy and weld metal discontinuities
- Quality system documentation
- Welding planning
- Visual inspection and other NDT methods of WPS,PQR
- Practical Welding Inspection

# INDTT'S AMERICAN WELDING SOCIETY CERTIFIED WELDING INSPECTOR, AWS –CWI SEMINAR

INDTT's training for AWS – CWI has been most successful with virtual 100 % success and this does make our training methods and depth of coverage different from others. We completely help prepare your candidates to attain this important milestone without any dilemma.

The course duration is 8 days and we present entire course related knowledge in an easy to understand way followed by intense classroom tests, practical on actual weld defect / destructive test samples followed by reviews.

INDTT provides intensive welding courses designed to assist welding professionals by expanding their knowledge base and core competencies. Completion of this course, demonstrates the candidate's readiness to take the American Welding Society's, Certified Welding Inspector Examination & to successfully pass in the very first attempt.

The subject and type of test questions for the AWS CWI examination are the Main focus of this program.

## TOPICS COVERED IN THE SEMINAR API 1104 Code Clinic

This course covers general code provisions, including qualification of welding procedures for welds containing filler metal additions, design and preparation of the joint for production welding, nondestructive testing and acceptance standards, and automatic welding with and without filler metal additions.

As in the D1.1 Code Clinic, attendees will practice open codebook testing under time constraints. The instructions provide a "road map" through the code, emphasizing the ability to locate important paragraphs, charts and tables quickly, which is crucial to understanding the code when working under stressful deadlines.

In addition to practice questions, a practice exam will be administered, and the instructor will illustrate the use of the code under time constraints, creating deadline pressure similar to the test environment. If you're taking the CWI exam, this clinic has proven to be valuable test preparation, as a leading construction code,

## BY ATTENDING, YOU CAN LEARN:

API 1104 testing requirements and acceptance criteria.

The proper terminology that gets you to the right section of the code.

How to use any code, standard or specification by understanding the core of the problem or question

Introduction to Welding.

Metal Joining and Cutting Processes.

Terminology and Weld Joint Geometry, Weld types and Symbols.

Documents Governing Welding Inspection.

Welding Procedure & Performance qualifications.

Codes, Standards & Specifications.

Welding Discontinuities, Interpretation & Evaluation.

Metal Properties and Destructive Testing.

Metric Practices.

Welding Metallurgy. Evaluation of Weld and Base Metal Discontinuities.

VT and Other NDE Methods and Symbols.

## VISUAL INSPECTION WORKSHOP

This workshop provides eight hours of expert instruction that includes approximately three hours of instruction in the use of inspection tools, followed by hands-on learning for the balance of the workshop. This hands-on training incorporates welds butt, fillet welds, and tensile specimen, bend tests and also includes sample practical examinations to prepare test candidates for the CWI practical examination.

### BY ATTENDING, YOU CAN LEARN:

Why visual inspection can be the most effective NDE technique

Use of measuring instruments as Verniers, Micrometers and others.

How to use weld measuring instruments & gages.

Compliance to a specific code.

Selecting correct filler metals, Preheat & PWHT requirements.

Procedure & Performance Qualifications & Tests.

Identifying most Welding Discontinuities on actual Weld Samples.

When a discontinuity is acceptable as per applicable Code.

When a defect is rejectable under different stress conditions.

Accept reject tensile test results of procedure qualifications.

Types of bend tests and evaluation as per code.

# CWI Examinations

All examination questions are multiple choices, and each part of the exam (administered separately) must be completed in two hours.

## EXAMINATION DETAILED DESCRIPTION

### Part A: Fundamentals

Closed book test; 150 questions.

This two-hour, 150-question closed-book test covers all facets of welding processes and nondestructive examination.

### Part B: Practical

Hands-on test; 46 questions; using AWS book of specifications

**Practical Applications.** This two-hour, hands-on test will require you to answer 46 questions using actual visual inspection tools with plastic replicas of welds, and a sample codebook ("Book of Specifications"), which will be provided for the exam.

### Part C: Open Code Book

46 questions on the code you previously selected.

This two-hour, open-book test includes 46–60 questions establishing your ability to find and comprehend information in one of your choice of five welding codes.

Most candidates choose either D1.1 or API 1104, and AWS offers preparatory Code Clinics for each.

You may also take Part C to several other codes; however, no AWS Code Clinics or study materials are offered for them: AWS D1.2/D1.2M (Aluminum); D1.5M/D1.5 (Bridge Welding Code); AWS D15.1 (Railroad Welding Code); ASME Boiler and Pressure Vessel Code Sections VIII and IX, or ASME Section IX, B31.1, and B31.3. The Welding Inspection Technology Workshop and the Visual Inspection Workshop (without a Code Clinic) would be the best choice if you are taking Part C to one of these alternative code books.

## EXAM SCORING REQUIREMENTS.

CWI: Completion of Parts A, B, and C with a minimum score of 72% in each part.

AWS CWI Seminar fees Rs 25,000/- + 12.36% service tax.

**This excludes the examination fee but includes Participant's Pack (study material of codes and standard, Folder, Manual, Hand-outs & Tea, Lunch**

**AWS-CWI Examination fee US \$ 1065/-**

## COURSE CERTIFICATE

INDTT certificate will be issued to all attendees of the course.

Course Venue Airoli (Navi Mumbai)

INDTT Navi Mumbai Training Center,

Row House No 2, Sector 3J ,

Opp -Shriram School, Airoli , Navi Mumbai 400706 ( 4 minutes walk from Airoli Bus & Rly Station )

## Accommodation

**At Airoli Navi Mumbai for outstation candidates for Rs 150 per day.**

Seats limited (up to a maximum of 25 students) shall be strictly on first come basis .Do you require any further information, please feel free to contact us.

**Call Asawari Madam on 867059990/7385397973/8655471599/9819877187/9969649212 for direct enrolment or send a mail accordingly.**

**Simon Mathew**

ASNT/API/AWS Examination coordinator

**Institute of Nondestructive Testing & Training,**

401/402 B, Pacific Towers, Sagar City, Andheri (W)

Mumbai 400058, INDIA

Email : [asawari@indtt.org](mailto:asawari@indtt.org), [training.navimumbai@indtt.org](mailto:training.navimumbai@indtt.org), [training@indtt.org](mailto:training@indtt.org),  
[info@indtt.org](mailto:info@indtt.org) Website : [indtt.org](http://indtt.org)