

COURSE OVERVIEW FE0866-10D

AWS Certified Welding Inspector 9-year Recertification

Course Title

AWS Certified Welding Inspector 9-Year Recertification

Course Date/Venue

August 10-21, 2026/TBA Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE or, Online Virtual Training

Course Reference

FE0866-10D



Course Duration/Credits

Ten days (80 hours)/8.0 CEUs/80 PDHs

Course Description



This practical and highly-interactive course includes practical sessions and exercises where participants carry out welding inspection. Theory learnt in the class will be applied using the “American Welding Society (AWS) Tool Kit” and “Structural Weld Replica Kit” suitable for in-class training.



As an AWS Certified Welding Inspector or Senior Certified Welding Inspector, you must renew your certification every three years. Every nine years, you must recertify, either by examination, obtaining approved endorsements, by recertification course, or by demonstrating 80 hours of continuing education, along with other requirements. Neglecting to recertify prior to your expiration will result in the loss of your certification status and will require you to retest on all parts of the original exam to regain your certification.



Upon the successful completion of this 80 PDHs CWI-9Y course, participants are exempted from undertaking any AWS examinations. To renew, simply submit your 9-Year renewal application accompanied by a copy of the Haward Certificate for this 80 PDHs course.

This course is designed by Haward Technology to prepare Welding Inspectors for the American Welding Society (AWS) Examination, in order to certify them as “AWS Certified Welding Inspector”. This course is a combination of the following three courses which jointly constitute this Certified Welding Inspector Exam Preparation course:-

1. Fundamental Welding Inspection Preparation Course:

This course is designed as a preparation for the AWS CWI (QC-1) Exam, part A, Fundamental Welding Inspection Exam. The participant will learn how to take the exam and the basic fundamentals of welding inspection. Information for inspector training is emphasized in this dual goal course

2. Practical Welding Inspection Preparation Course:

This course is designed as a preparation for the AWS CWI (QC-1) Exam, Part B, Practical Welding Inspection (hands-on) Exam. This course is a must for the nine-year renewal CWI. The participant will learn how to use the tools required for the exam, as well as the AWS Specifications Book

3. API 1104 Preparation Course:

This course is designed as a preparation for the AWS CWI (QC-1) Part C Code Book Exam. The participant will learn how to use the code book to solve inspection problems

The participant will receive in-depth instruction pertaining to passing the AWS CWI (QC-1) exam, as well as insight into the intricacy's students may expect to encounter in the working environment. This course is offered as both an in-house and an open enrollment class.

Additionally, quizzes are given at the end of each section; homework is handed out at the end of each class day, and is reviewed at the beginning of the following day, and a practice” exam is administered at the end of the course.

Course Objectives/Outcomes & Benefits for the Participants

Upon the successful completion of this course, each participant will be able to:-

- Renew your AWS-CWI Certificate without sitting for any AWS Examination
- Discuss the aspects of welding inspection, CWI and CWE tests as well as the skills, responsibilities and qualities of an effective inspector
- Carryout safe practices for welding inspectors as well as the method of metal joining and cutting processes
- Identify the weld joint geometry and welding symbols including the features, terminology and application
- Employ documentation governing weld inspection and qualification and describe the metal properties and destructive testing
- Distinguish the various metric practices for welding inspector
- Explain the welding metallurgy for the welding inspector, weld and base metal discontinuities and illustrate visual inspection and other NDE methods and symbols
- Recognize welding of pipelines and related facilities in accordance with API 1104
- Use tools properly for measuring and weld examination

Exclusive Smart Training Kit - H-STK®



*Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

The course is intended for AWS Certified Welding Inspectors or Senior Certified Welding Inspectors who need to renew their certification every 9 years as mandated by AWS.

Required Codes & Standards

Listed below are the effective editions of the publications required for the current Welding Inspector Certification Examination. **Each participant must purchase these documents separately and have them available for use during the class as their cost is not included in the course fees:-**

♦ CODE SUBJECTS AVAILABLE AND CURRENT EXAM EDITIONS (applicants must provide own codebook for exam)

- AWS D1.1- Structural Steel Code: 2020 Edition
- API 1104 - Pipelines 21st Edition, December 2008/ Errata 1 April 2014
- AWS D1.2 - Structural Aluminum Code: 2014 Edition
- AWS D1.5 - Bridge Welding Code: 2015 Edition (including Clause 12)
- AWS D15.1 - Railroad: 2012 Edition
- AWS D17.1 - Aerospace: 2017 w/ Amendment 1
- ASME BPVC Sec IX, Power (B31.1) and Process (B31.3) Piping
- ASME BPVC Sec IX (2019 Edition), B31.1 (2018) and B31.3 (2018)
- ASME BPVC Sec VIII, Div. 1 (2015) and Sec IX (2015)

Note: The editions listed above apply to the English editions only. To verify the edition being used with language-assisted exams, please contact the AWS Certification department or the Agent.

♦ AWS - RECOMMENDED SELF-STUDY (Examination Preparatory Material)

AWS Publications

- AWS Certification Manual for Welding Inspectors
- AWS Welding Inspection Handbook
- AWS Structural Welding Code-Steel
- AWS Code Clinic Reference Manual
- AWS Study Guide for API Standard 1104
Welding of Pipelines
- AWS Welding Inspection Technology

Order Number

CM
WI: 2015
D1.1/D1.1M: 2020
CCRM: 2020 D1.1
API-M: 2017

WIT-T-2020

- AWS Welding Inspection Technology (Workbook)
- AWS Welding Inspection Technology Sample CWI Fundamentals Examination & Key
- AWS Standard Welding Terms and Definitions
- AWS Standard Symbols for Welding, Brazing, and Nondestructive Examination
- AWS Guide for the Nondestructive Examination of Welds
- AWS Specification for the Qualification of Welding Inspectors

WIT-W: 2020

WIT-E: 2020

A3.0M/A3.0:2020

A2.4: 2020

B1.10M/B1.10:2016

B5.1: 2013-AMD1

◆ **OTHER RECOMMENDATIONS**

- AWS Welding Handbook Series
- AWS Guide for the Visual Examination of Welds
- AWS Safety in Welding, Cutting and Allied Processes
- AWS Standard Methods for the Mechanical Testing of Welds
- AWS Specification for Welding Procedure and Performance Qualification
- Standard for AWS Certification of Welding Inspectors

Order Number

WHB-ALL

B1.11: 2015

ANSI Z49.1: 2012

B4.0: 2016

B2.1: 2014

QCI: 2016

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Practical Workshops & Work Presentations

30% Hands-on Practical Exercises & Case Studies

20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

Training Fee

F2F Classroom: US\$ 10,000 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Online Virtual: US\$ 5,000 per Delegate + **VAT**.

Exam Fees

US\$ 3,195 per Delegate + **VAT**.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.



Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations:

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American Welding Society (AWS)

Haward Technology is the **International Agent** of the **American Welding Society (AWS)** and the Authorized Provider of AWS international certification examinations outside the USA. Haward Technology exhibits compliance and adherence to **AWS Quality Control Standards** in the development, conduct and delivery of certification courses and exams for welding and inspection professionals on behalf of the American Welding Society.

The American Welding Society's certification programs are internationally recognized and are used as a benchmark of quality workmanship and skills within the welding industry around the world.

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council for Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

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The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **8.0 CEUs** (Continuing Education Units) or **80 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Talaat Mohamed, PGDip, BSc, is a **Certified Inspection Engineer (NDT-ASNT) & Certified Welding Inspector (CWI-AWS)** with over 30 years of extensive experience within the **Oil, Gas, Petrochemical, Petroleum and Refinery** industries. His thorough experience widely covers **Practical Welding Technology, Welding Inspection, Practical Welding, Welding & Fabrication Program, Welding in Steam Systems, Welding Types and Applications, Welding Defects Analysis, Radiation Safety & Protection, Radioactive Waste Management, Radiation Protection Instrumentation, Nuclear & Radiological Safety, Nuclear Engineering, Radiation, Safe Handling, Non-destructive Testing in Radiography, Ultrasonic, Penetrant, Magnetic Particle, Visual Testing and Welding Inspection**. Further, he is also an expert in **Equipment Analysis & Piping Design, Welding, Corrosion & Risk Based Inspection, Fitness-for-Service Assessment, Boiler & Pressure Vessel, Fabrication, Vibration, Heat Treatment, Inspection & Repair Procedures, Material Damage Mechanism, Material Failure Analysis, Mechanical Integrity, Isomerization, Distillation & Reforming Units, Pipelines, Pressure Piping, Stationary Equipment, Tank Inspection, Fired Boilers & Heaters, Heat Exchangers, Coolers, Pressure Vessels, Drums, Storage Tanks, Furnaces, Heaters, Pipelines, Columns, Reactors, Strippers and Safety Valves**. He is also well-versed in UltraPIPE software, PCMS software and Lloyd's Register RBMI software as well as the API 571, API 510, API 572, API 570, API 653, API 560, Welding & Brazing Qualifications, API 573 and ASME B31.3 standards. He is currently the **Inspection General Manager** of Cairo Oil Refining Company (CORC) wherein he is responsible in developing the strategies for inspection and testing as well as designated as a certifying authority for ASNT-NDT levels certification according to SNT-TC-1A Personnel Qualification and Certification in Non-destructive Testing.

During his career life, Mr. Talaat has gained his practical and field experience through his various significant positions such as the **Inspection General Manager, Technical Studies Department Manager, Isomerization Inspection Department Manager, NDT & Inspection Section Head, Training Instructor, Technical Trainer, NDT Instructor, Inspection Engineer, QA/QC Team Leader and Team Leader** for numerous international companies like the Khalda Petroleum Company, Suez Oil Processing Co., Agiba Co., El-Nasr Petroleum Co., Suez Oil Co., General Petroleum Co., Petrobel Co., Egyptian Gas Co., Gulf Petroleum Co., as well as for Cairo Oil Refining Company, Welding Academy, GASCO and United Gas Derivatives Company.

Mr. Talaat has a **Bachelor** degree in **Mechanical Engineering** and a **Post-Graduate Diploma** in **Metallurgy & Material Engineering**. Further, he is a **Certified ASNT Level III NDT Inspector** in **Radiographic Testing (RT), Ultrasonic Testing (UT), Penetrant Testing (PT), Magnetic Particle Testing (MT) and Visual Non-destructive Testing (VT)**; a **Certified Welding Inspector (CWI-AWS)**, a **Certified Instructor/Trainer**; a **Certified Trainer/Assessor/Internal Verifier** by the **Institute of Leadership & Management (ILM)**; and holds a certification in Quality Assurance, ISO 9000, API Heat Exchangers & Cooling Towers, Internal Quality System Auditing and Internal Quality System Auditing for ISO 9001/2000. Moreover, he is an active member of the American Society of Non-destructive Testing (**ASNT**), the Engineers Syndicate, the Society of Mechanical Engineers, the American Welding Society (**AWS**) and the Supreme Committee of Quality and delivered countless trainings, workshops and seminars worldwide.

Virtual Training (If Applicable)

If this course is delivered online as a Virtual Training, the following limitations will be applicable:-

Certificates	Only soft copy certificates will be issued to participants through Haward's Portal. This includes Wallet Card Certificates if applicable
Training Materials	Only soft copy Training Materials (PDF format) will be issued to participant through the Virtual Training Platform
Training Methodology	80% of the program will be theory and 20% will be practical sessions, exercises, case studies, simulators or videos
Training Program	The training will be for 8 hours per day starting at 0730 and ending at 1730
H-STK Smart Training Kit	Not Applicable
Hands-on Practical Workshops	Not Applicable
Site Visit	Not Applicable
Simulators	Only software simulators will be used in the virtual courses. Hardware simulators are not applicable and will not be used in Virtual Training

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Monday, 10th of August 2026

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Introduction Aspects of Welding Inspection • Skills & Responsibilities of the Inspector • Aspects of the CWI & CWE Tests • Qualities of an Effective Inspector
0930 – 0945	Break
0945 – 1200	Safe Practices for Welding Inspectors (Z 49.1) General Aspects • Potential Hazards • Personal Protective Equipment • Safety Program & Management Support
1200 – 1300	Lunch
1300 – 1500	Safe Practices for Welding Inspectors (Z 49.1) (cont'd) Safety Training • Material Safety Data Sheets • Threshold Limit Value • Protective Screens • Fire Prevention
1500 – 1515	Break
1515 – 1630	Safe Practices for Welding Inspectors (Z 49.1) (cont'd) Hot Work Permits • Explosion Hazards • Fume Exposure Factors • Electrical Shock • Section Quiz • Safety Video
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day One

Day 2: Tuesday, 11th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Metal Joining & Cutting Processes High Speed Welding Video
0930 – 0945	Break
1045 – 1200	Metal Joining & Cutting Processes (cont'd) Common Features of Welding Processes
1200 – 1300	Lunch
1300 – 1500	Metal Joining & Cutting Processes (cont'd) Basic Process Groups
1500 – 1515	Break
1515 – 1630	Weld Joint Geometry & Welding Symbols (A2.4) Joint Arrangement • Joint Design • Joint Geometry • Edge Shapes • Weld Joint Features
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Two

Day 3: Wednesday, 12th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Weld Joint Geometry & Welding Symbols (A2.4) (cont'd) Weld Terminology • Penetration Terminology • Weld Size Terminology • Weld Application • Standard Welding Symbols
0930 – 0945	Break
1045 – 1200	Documentation Governing Weld Inspection & Qualification General Information • Document Types • Fabrication Drawings • Dimensions • Tolerances • Notes
1200 – 1300	Lunch
1300 – 1500	Documentation Governing Weld Inspection & Qualification (cont'd) Welding Details • Hold Points • Inspection Information • Types of Codes/Standards • Specifications
1500 – 1515	Break
1515 – 1630	Documentation Governing Weld Inspection & Qualification (cont'd) Control of Materials • Material Test Reports • Material Control Systems • Material Control Methods • Alloy Identification Systems • Qualification
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Three

Day 4: Thursday, 13th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Metal Properties & Destructive Testing Metal Properties • Strength • Behavior Under Load • Temperature Effects • Ductility • Directional Properties
0930 – 0945	Break

1045 – 1200	Metal Properties & Destructive Testing (cont'd) Hardness • Indenter Types • Toughness • Stress Riser • Transition Temperature • Fatigue Strength
1200 – 1300	Lunch
1300 – 1500	Metal Properties & Destructive Testing (cont'd) Endurance Limit • Chemical Properties • Elements in Steels • Dissolved Gases • Aluminum Alloys • Nickel Alloys • Copper Alloys
1500 – 1515	Break
1515 – 1630	Testing
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Four

Day 5: Friday, 14th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Metric Practices for Welding Inspection Metric System
0930 – 0945	Break
1045 – 1200	Metric Practices for Welding Inspection (cont'd) Metric System
1200 – 1300	Lunch
1300 – 1500	Welding Metallurgy for The Welding Inspector
1500 – 1515	Break
1515 – 1630	Welding Metallurgy for The Welding Inspector (cont'd)
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Five

Day 6: Monday, 17th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Weld & Base Metal Discontinuities (B1.11)
0930 – 0945	Break
1045 – 1200	Weld & Base Metal Discontinuities (B1.11) (cont'd)
1200 – 1300	Lunch
1300 – 1500	Visual Inspection & Other NDE Methods & Symbols (B1.10)
1500 – 1515	Break
1515 – 1630	Visual Inspection & Other NDE Methods & Symbols (B1.10) (cont'd)
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Six

Day 7: Tuesday, 18th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Two (2) Hour Timed Test (150 Questions)
0930 – 0945	Break
1045 – 1145	Two (2) Hour Timed Test (150 Questions) (cont'd)

1145 – 1245	Lunch
1245 – 1500	Discussion/Review
1500 – 1515	Break
1515 – 1630	Welding of Pipelines & Related Facilities (API 1104) General • Referenced Publications • Definition of Terms
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Seven

Day 8: Wednesday, 19th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Welding of Pipelines & Related Facilities (API 1104) (cont'd) Specifications • Qualification of Welding Procedures for Welds Containing Filler-Metal Additives
0930 – 0945	Break
1045 – 1200	Welding of Pipelines & Related Facilities (API 1104) (cont'd) Qualification of Welders • Design & Preparation of a Joint for Production Welding
1200 – 1300	Lunch
1300 – 1500	Welding of Pipelines & Related Facilities (API 1104) (cont'd) Inspection & Testing of Production Welds • Acceptance Standards for Nondestructive Testing
1500 – 1515	Break
1515 – 1630	Welding of Pipelines & Related Facilities (API 1104) (cont'd) Repair & Removal of Defects • Alternative Acceptance Standards for Girth Welds
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Eight

Day 9: Thursday, 20th of August 2026

0730 – 0830	Homework Review
0830 – 0930	Welding of Pipelines & Related Facilities (API 1104) (cont'd) In-Service Welding • Procedures for Nondestructive Testing
0930 – 0945	Break
1045 – 1200	Welding of Pipelines & Related Facilities (API 1104) (cont'd) Automatic Welding • Automatic Welding without Filler-Metal Additions
1200 – 1300	Lunch
1300 – 1500	API 1104 Exercise
1500 – 1515	Break
1515 – 1630	API 1104 Exercise (cont'd)
1630 – 1700	Quiz
1700 – 1730	Distribute Homework & Recap
1730	End of Day Nine

Day 10: Friday, 21st of August 2026

0730 – 0930	VIDEO (Use of Measuring Tools for The AWS CWI Hands-On Exam)
0930 – 0945	Break
0945 – 1200	Hands-On Workshop Use of Tools for Measuring & Weld Examination
1200 – 1300	Lunch

1300 – 1430	Hands-On Workshop (cont'd) <i>Use of Tools for Measuring & Weld Examination (cont'd)</i>
1430 - 1530	Part B Exam
1530 – 1545	<i>Break</i>
1545 - 1645	Part B Exam (cont'd)
1645 - 1700	Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1700 - 1715	POST-TEST
1715 – 1730	<i>Presentation of Course Certificates</i>
1730	<i>End of Course</i>

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each participant will be given a username and password to log in Haward's Portal for the MOCK Exam during the 60 days following the course completion. Each participant has only one trial for the MOCK exam within this 30-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.

Practical Sessions

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout welding inspection using the "American Welding Society (AWS) Tool Kit" and "Structural Weld Replica Kit", suitable for classroom training.



AWS Tool Kit



Structural Weld Replica Kit

Course Coordinator

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