

COURSE OVERVIEW FE0938 API SIFE: Source Inspector Fixed Equipment

(API Exam Preparation Training)

Course Title

API SIFE: Source Inspector Fixed Equipment (API Exam Preparation Training)

Course Date/Venue

Course Date : April 21-25, 2025

Course Venue: Ajman Meeting Room, Grand

Millennium Al Wahda Hotel, Abu

Dhabi, UAE

Exam Window: July 11-August 01, 2025 Exam Venue : Abu Dhabi, Dubai, Al-Khobar,

> Jeddah, Kuwait, Amman, Beirut, Cairo. Manama and Muscat.

> > (40 PDHs)

Participant has the option to attend at any of the above cities

Exam Registration Closing Date: May 02, 2025



FE0938

Course Duration/Credits

Five days/4.0 CEUs/40 PDHs

Course Description



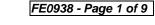
This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.



This course is designed to provide an up-to-date knowledge and skills for source inspectors for the purpose of providing a consistent method of Supplier/Vendor (S/V) quality surveillance for the oil, petrochemical and gas industries. It is intended for individuals willing to take the API Source Inspector Certification examination.



The course covers the process of providing quality surveillance of materials, equipment and fabrications being supplied for use in the oil, petrochemical and gas Industry, including upstream, midstream and downstream segments. Participants will be trained in providing a systematic approach to risk-based source inspection in order to provide confidence that materials and equipment being purchased meet the minimum requirements as specified in the project documents and contractual agreements. The course will guide source inspectors acting on behalf of purchasers to determine whether manufacturers/fabricators own quality systems have functioned appropriately, such that the purchased equipment and materials will meet contractual agreements.





























This course focuses primarily on pressure containing and structural equipment (fixed equipment) including: vessels, columns/towers, heat exchangers, piping, valves, pressure relief devices, tubulars, and associated structural fabrications.

Haward Technology is proud of its 90% pass rate on all our API sponsored courses.

Course Objectives

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

- Prepare for the next API SIFE exam and have enough knowledge and skills to pass such exam in order to get the API SIFE certification
- Analyse the scope, purpose, definitions, abbreviations and acronyms of API SIFE guide
- Describe the source inspection management program as well as the project specific source inspection planning activities
- Evaluate the source inspection performance including the inspector conduct and safety and review of project documents
- Review the various API, ASME, ASNT, AWS and SSPC Codes, Standards and references
- Carryout the welding procedures, qualifications, NDE procedures and project schedules
- Perform source inspection and recognize the source inspection work process scheduled planning events
- Employ proper methods of report writing and identify the nonconformance/deviations
- Carryout source inspection project continuous improvement and source inspector continuous improvement
- Recognize the examination methods, tools and equipment
- Identify the various nondestructive examination (NDE) techniques
- Apply destructive testing, pressure/leak testing, performance/functional testing, surface preparation/coatings inspections and final acceptance
- Illustrate the manufacturing and fabrication processes, welding processes and welding
- Identify the metallurgy issues associated with manufacturing and fabrication processes
- Discuss pressure vessels, piping and structural components

Who Should Attend

This course provides a wide understanding and deeper appreciation of fixed equipment inspection in the source according to API source inspection and quality surveillance of fixed equipment guide for those who are engaged in inspection of bought out materials and components for fixed equipment like pressure vessels, piping and structurals. Further, the course is beneficial to all QA/QC engineers and inspectors, project engineers and inspectors of industrial plants and pressure equipment inspectors of inspection bodies and agencies.

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

Hands-on Practical Exercises & Case Studies 30%

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.

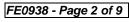


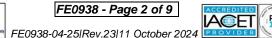






















Required Codes and Standards

Listed below are the effective editions of the publications required for this examination on the date(s) shown above. 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:-

API Documents

API Recommended Practice 588, Recommended Practice for Source Inspection and Quality Surveillance of Fixed Equipment, 1st Edition, 2019

API Recommended Practice 572, Inspection of Pressure Vessels,4th Edition, December 2016, Sections 3 and 4

API Recommended Practice 577, Welding Inspection and Metallurgy, 3rd Edition, October 2020

API Recommended Practice 578, Material Verification Program for Alloy Piping Systems, 3rd Edition, February 2018

API Standard 598, Valve Inspection and Testing, 10th Edition, October 2016

American Welding Society (AWS)

AWS D1.1, Structural Welding Code- Steel, 24th Edition, 2020

American Society of Nondestructive Testing (ASNT)

Recommended Practice SNT TC-1A Personal Qualification and Certification in Nondestructive Testing Personnel, 2011 Edition

American Society of Mechanical Engineers (ASME) - Boiler and Pressure Vessel Code (BPVC) Section II Materials, Part A, B, C, D, 2021

-Sections SA-20, SA-370, SA-6

Section V Nondestructive Examination, 2021

- All definitions in Subsection A, Article 1, Appendix 1 and Subsection B, Article 30, SE-
- Articles 1, 4, 6, 7, 9, 10, and 23 (section 797 only)

Section VIII Rules for Construction of Pressure Vessels, Division 1 and 2, 2021

- All definitions in Appendix 3
- Sections UG 4 15; UG 75 85; UG 90 103; UG 115 120
- Sections UW 1 3; UW 5; UW 26 42; UW 46 54; UW 60,
- UCS 56 57

Section IX Welding and Brazing Qualifications, Welding only, 2021

- QW 100 190; QW 200 290; QW 300 380
- QW 400 490; QW 500 540

ASME B31.3, Process Piping, 2018 Edition

- Chapters I, III, IV, V, VI

ASME B16.5 Pipe Flanges and Flanged Fittings, 2020

- Chapters 1-8

Society for Protective Coatings (SSPC)

SSPC - PA 2 Procedure for Determining Conformance to Dry Coating Thickness Requirements, 2022

SSPC Surface Preparation Guide, the following sections only:

- SSPC-SP1 Solvent Cleaning, 2015
- SSPC-SP3 Power Tool Cleaning, 2004
- SSPC-SP5 NACE 1 White Metal Blast Cleaning, 2007
- SSPC-SP6 NACE 3 Commercial Blast Cleaning, 2007
- SSPC-SP7 NACE 4 Brush-Off Blast Cleaning, 2007
- SSPC-SP10 NACE 2 Near-White Blast Cleaning, 2007
- SSPC-SP11 Power Tool Cleaning to Bare Metal, 2013

Note: API and ASME publications are copyrighted material. Photocopies of API and ASME publications are not permitted.

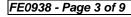
























API Certificate(s)

API-SIFE certificate will be issued to participants who have successfully passed the API-



(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.



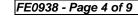
























Certificate Accreditations

Certificates are accredited by the following international accreditation organizations:



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 **4.0 CEUs** (Continuing Education Units) or 40 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.



British Accreditation Council (BAC)

Haward Technology is accredited by the British Accreditation Council for Independent Further and Higher Education as an International Centre. 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.

Accommodation

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

Training Fee

US\$ 7,500 per Delegate + VAT. This rate includes Participants Pack (Folder, Manual, Handouts, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee US\$ 620 per Delegate + VAT

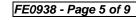
























Course Instructor(s)

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. Allen Noguera, BSc, ASNT-NDT, AWS-CWI, API, is a Senior Inspection Engineer with almost 20 years of extensive industrial experience within the Oil & Gas, Refinery and Petrochemical industries. His expertise widely covers in the areas of Source Inspection Performance, Source Inspection Planning, Source Improvement, Inspection Continuous Source Inspection Management, Pressure Vessel Inspection, Piping Inspection, Risk Based Inspection, Above Ground Storage Inspection, Corrosion & Material Management, Refractory Inspection, Welding Inspection &

Metallurgy, Asset Integrity Management, Welding & Fabrication, Piping Inspection, Pipelines, Risk-Based Inspection (RBI), Fitness-for-Service (FFS), Asset Integrity Management (AIM), Plant Inspection & Corrosion Engineering, Metallurgy, Corrosion & Prevention, Material Selection & Properties, Welding Technology, Welded Steel Tanks for Oil Storage, Cathodic Protection, Damage Mechanisms, Mechanical Metallurgical Failure Mechanisms, Atmospheric & Low-Pressure Storage Tank Inspection, Welding Inspection & Metallurgy Pressure Design Thickness Calculation, Metallurgy, Corrosion, Mechanical Integrity Assessment, Vibration Analysis and Nondestructive Testing (NDT). Further, he is also well-versed in AutoCAD 2015, Inventor Autodesk 2014, Caesar II 4.5, SAP PM & MM, Primavera Plot Planner, Ansys CFX, Meridium, Ultrapipe, RBI Software, Raptor and Crystall Ball. He is currently the Senior Assessment Integrity Engineer of INSERCOR for ECOPETROL wherein he is responsible in reviewing, assessing and updating integrity management and inspection data for pressure systems, pipelines and structures.

During his career life, Mr. Noguera has gained his practical and field experience through his various significant positions and dedication as the Welding Inspector, Senior Assessment Integrity Engineer, Offshore/Onshore Assessment Integrity Engineer, Project Mechanical Engineer, Mechanical Inspector Engineer Mechanical Integrity Consultant, NDT Consultant and Senior Technical Instructor/Lecturer for various international companies like the PDVSA, Cicontrol C.A., Inspecta S.A., Techint Group C.A., Refinería de Sonangol and INSERCOR for ECOPETROL.

Mr. Noguera has a Bachelor's degree in Industrial Mechanical Engineering from the Universidad de Los Andes and holds a Diploma in Industrial System Reliability from the Universidad Simon Bolivar. Further, he is a Certified Instructor/Trainer, a Certified Source Inspector-Fixed Equipment (API-SIFE), a Certified Source Inspector-Rotating Equipment (API-SIRE), a Certified Refractory Personnel (API-936), a Certified Above Ground Storage Tank Inspector (API 653), a Certified Pressure Vessels Inspector (API 510), a Certified Piping Inspector (API 570), a Certified Welding Inspection & Metallurgy Professional (API 577), a Certified Risk Based Inspector (API 580), a Certified Corrosion & Material Specialist (API 571), a Certified Pipeline Construction Inspector (API 1169) and an ASNT-NDT Certified Level III ASNT-TC-1A in Radiographic Testing (RT), Magnetic Particle Testing (MT), Visual Testing (VT), Magnetic Flux Leakage Testing (ML), and Liquid Penetrant Testing (PT). Moreover, he is a Certified Welding Inspector from the American Welding Society (CWI-AWS), an Authorized Inspector from the National Board for Boilers and Pressure Vessels and has further delivered innumerable trainings, courses, seminars, conferences and workshops internationally.

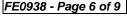
























Course Program

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:

Sunday, 21 st of April 2025
Registration & Coffee
Welcome & Introduction
PRE-TEST
Scope/Purpose
Break
Definitions, Abbreviations & Acronyms
Training
Source Inspection Management Program
Lunch
Project Specific Source Inspection Planning Activities Equipment Risk Assessment • Development of a Source Inspection Project Plan • Development of Inspection & Test Plans • Selection of an Inspector • Coordination of Inspection Events • Report Review
Source Inspection Performance
Inspector Conduct & Safety • Review of Project Documents
Break
API Codes & Standards API RP 572 (Inspection Practices of Pressure Vessels) • API RP 577 (Welding Inspection & Metallurgy) • API RP 578 (Material Verification Program for New & Existing Alloy Piping Systems) • API 598 (Valve Inspection & Testing)
Distribute Homework & Recap
End of Day One

Monday 22nd of April 2025

Day 2:	Monday, 22 nd of April 2025
0730 - 0800	Review Homework Answers
0000 0045	ASME Codes & Standards
	ASME BPVC Section II-Materials (Part A, B, C & D) • ASME BPVC Section V-
	Nondestructive Examination • ASME BPVC Section VIII, Division 1-Rules for the
	Construction of Pressure Vessels • ASME BPVC Section VIII, Division 2-Rules for
0800 – 0945	the Construction of Pressure Vessels-Alternative Rules • ASME BPVC Section IX-
	Welding & Brazing Qualifications Procedures, Welders, Brazers, & Welding &
	Brazing Operators • ASME B31.3-Process Piping • ASME B16.5-Pipe Flanges &
	Flanged Fittings
0945 - 1000	Break
1000 – 1100	ASNT Standards
	ASNT SNT-TC-1A
1100 – 1200	AWS Standards & References
	The Welding Inspection Handbook • AWS D1.1 Structural Welding Code
1200 - 1300	Lunch
1300 – 1400	SSPC Standards
	SSPC-PA 2 Coating Applications Standard No. 2, Procedure for Determining
	Conformance to Dry Coating Thickness Requirements • SSPC Surface Preparation
	Guide
1400 - 1500	Welding Procedures & Qualifications

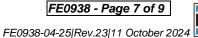
























1500 – 1515	Break
1515 – 1600	NDE Procedures
1600 – 1645	Project Schedules
1645 – 1700	Distribute Homework & Recap
1700	End of Day Two

Day 3: Tuesday, 23rd of April 2025

Day S.	ruesday, 23° Or April 2025
0730 - 0800	Review Homework Answers
0800 - 0930	Performing the Source Inspection
0930 - 0945	Break
	Source Inspection Work Process Scheduled Planning Events
0945 - 1045	Pre-purchase Meeting (Prior to Contract Placement) • Pre-inspection Meeting (Prior
	to Start of Fabrication)
1045 - 1200	Report Writing
1200 - 1300	Lunch
1300 - 1400	Nonconformance/Deviations
1400 – 1500	Source Inspection Project Continuous Improvement
1500 – 1515	Break
1515 – 1600	Source Inspector Continuous Improvement
	Examination Methods, Tools & Equipment
1600 - 1645	Review & Confirmation of Materials of Construction • Dimensional Inspections •
	Visual Inspections
1645 – 1700	Distribute Homework & Recap
1700	End of Day Three

Day 4: Wednesday, 24th of April 2025

Day 4:	Wednesday, 24" of April 2025
0730 - 0800	Review Homework Answers
0800 – 0900	Nondestructive Examination (NDE) Techniques
	General • Penetrant Testing (PT) • Magnetic Testing (MT) • Radiographic Testing
	(RT) • Ultrasonic Testing (UT) • Hardness Testing (HT) • Positive Material
	Identification (PMI)
0900 - 1000	Destructive Testing
1000 - 1015	Break
1015 - 1100	Pressure/Leak Testing
1100 – 1200	Performance/Functional Testing
1200 - 1300	Lunch
1300 - 1400	Surface Preparation/Coatings Inspections
1400 - 1500	Final Acceptance
1500 - 1515	Break
1515 – 1600	Manufacturing & Fabrication (M&F) Processes
1600 – 1645	Welding Processes & Welding Defects
	Casting • Forging • Machining • Assembly
1645 – 1700	Distribute Homework & Recap
1700	End of Day Four

Day 5: Thursday, 25th of April 2025

0730 - 0800	Review Homework Answers
0800 – 1000	<i>Metallurgy Issues Associated with Manufacturing & Fabrication Processes</i> The Structure & Metals • Physical Properties of Metals • Mechanical Properties of
	Metals • Hardness & Hardenability of Metals • Weldability of Metals • Preheating & Postweld Heat Treatment (PWHT)
1000 - 1015	Break























1015 – 1200	Pressure Vessels Vessel Methods of Construction • Vessel Materials of Construction • Vessel Internal Components • Vessel Design & Construction Standards • Dimensional Check of Pressure Vessels • Heat Exchangers
1200 - 1300	Lunch
1300 – 1500	Piping Valves • Flanges • Fittings
1500 – 1515	Break
1515 – 1615	Structural Components
1615 - 1630	Course Conclusion
1630 - 1645	POST-TEST
1645 – 1700	Presentation of Course Certificates
1700	End of Course

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 30 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

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org











