

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 Reference

FE0938

Course Duration/Credits

Five days/4.0 CEUs/40 PDHs

Course Date/Venue

Sessions	Date	Venue	Exam Window	Exam Closing Date
1	June 21-25, 2026	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE	TBA	TBA
2	December 13-17, 2026	Crowne Meeting Room, Crowne Plaza Al Khobar, KSA		
Exam Venue	Abu Dhabi, Dubai, Al Khobar, Jeddah, Kuwait, Amman, Beirut, Cairo, Manama and Muscat. Participant has the option to attend at any of the above cities.			



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 defects
- Identify the metallurgy issues associated with manufacturing and fabrication processes
- Discuss pressure vessels, piping and structural components

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

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.

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-1316.

- 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-SIFE examination.



- (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.

CEUS

Haward Technology Middle East
Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 25-Feb-21
HTME No. 74852
Participant Name: Salem Ghanem

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
FE0938	API SIFE: Source Inspector Fixed Equipment (API Exam Preparation Training)	February 21-25, 2021	40	4.0

Total No. of CEU's Earned as of TOR Issuance Date: **4.0**

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Jayl Castillo
Academic Director

Haward Technology has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET). This certificate is issued in accordance with the ANSI/IACET 1:2018 Standard, which is widely recognized as the standard of good practice internationally. As a result of their Accredited Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1:2018 Standard.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs). The CEU is an international unit of measurement for continuing education, according to ANSI, International Council on Standards for Educational Evaluation (ICSEE), and the International Council on Accreditation of Educational Institutions (ICAEI). The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology is accredited by



P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 2051 714 | Email: info@haward.org | Website: www.haward.org

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations:

- 
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.

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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 **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.

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, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee

US\$ 635 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 Inspection** Continuous Improvement, **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 Non-destructive 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.

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.

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

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Scope/Purpose
0930 – 0945	Break
0945 – 1030	Definitions, Abbreviations & Acronyms
1030 – 1115	Training
1115 – 1200	Source Inspection Management Program
1200 – 1300	Lunch
1300 – 1400	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
1400 – 1500	Source Inspection Performance Inspector Conduct & Safety • Review of Project Documents
1500 – 1515	Break
1515 – 1645	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)
1645 – 1700	Distribute Homework & Recap
1700	End of Day One

Day 2

0730 – 0800	Review Homework Answers
0800 – 0945	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 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	<i>Break</i>
1000 – 1100	ASNT Standards ASNT SNT-TC-1A
1100 – 1200	AWS Standards & References <i>The Welding Inspection Handbook • AWS D1.1 Structural Welding Code</i>
1200 – 1300	<i>Lunch</i>
1300 – 1400	SSPC Standards <i>SSPC-PA 2 Coating Applications Standard No. 2, Procedure for Determining Conformance to Dry Coating Thickness Requirements • SSPC Surface Preparation Guide</i>
1400 – 1500	Welding Procedures & Qualifications
1500 – 1515	<i>Break</i>
1515 – 1600	NDE Procedures
1600 – 1645	Project Schedules
1645 – 1700	Distribute Homework & Recap
1700	<i>End of Day Two</i>

Day 3

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

Day 4

0730 – 0800	<i>Review Homework Answers</i>
0800 – 0900	Nondestructive Examination (NDE) Techniques <i>General • Penetrant Testing (PT) • Magnetic Testing (MT) • Radiographic Testing (RT) • Ultrasonic Testing (UT) • Hardness Testing (HT) • Positive Material Identification (PMI)</i>
0900 – 1000	Destructive Testing
1000 – 1015	<i>Break</i>
1015 – 1100	Pressure/Leak Testing
1100 – 1200	Performance/Functional Testing
1200 – 1300	<i>Lunch</i>
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

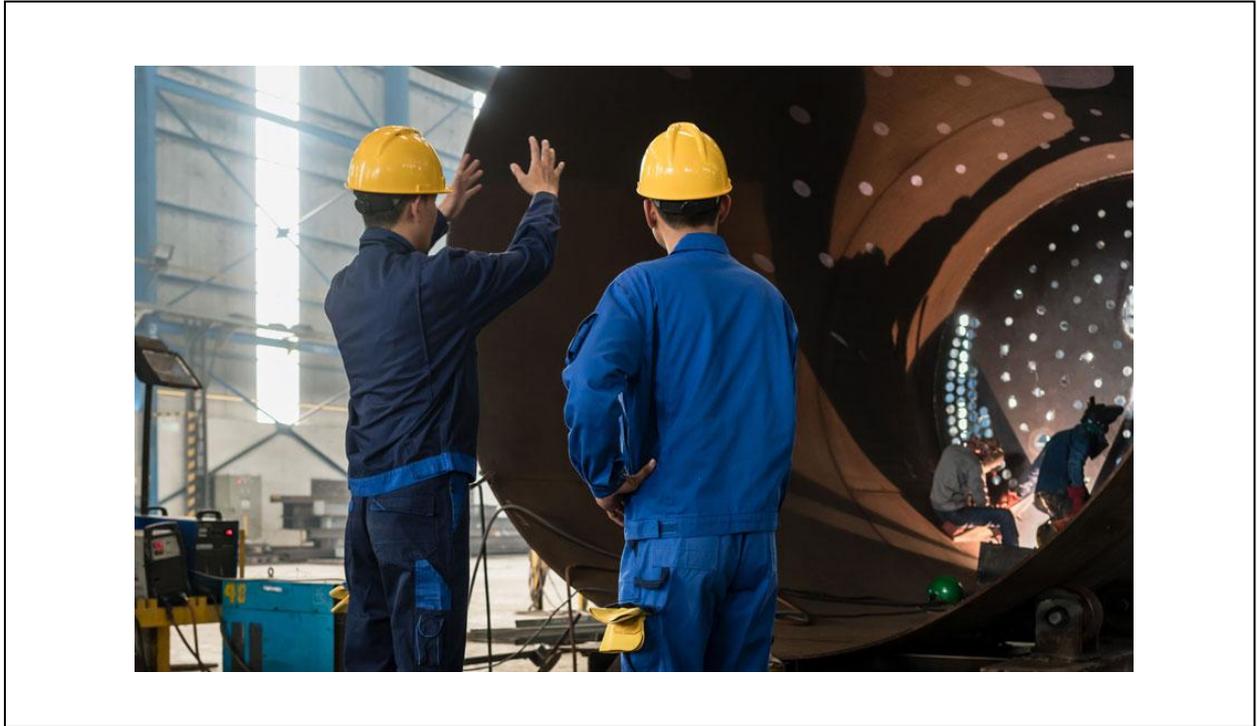
0730 - 0800	Review Homework Answers
0800 - 1000	Metallurgy Issues Associated with Manufacturing & Fabrication Processes The Structure & Metals • Physical Properties of Metals • Mechanical Properties of Metals • Hardness & Hardenability of Metals • Weldability of Metals • Preheating & Postweld Heat Treatment (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

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