



API SIFE - Source Inspector Fixed Equipment ---

The API Source Inspector certification program is one of a kind certificate for static equipment between certification bodies; that is, there is no other similar certification developed by any other organization in the world. It gives a complete overview of package inspection of fixed equipment. It qualifies individuals who perform the important task of supplier quality surveillance.

The Source Inspector has been defined as the individual responsible for:

- Examining fabricated and manufactured equipment and materials at a supplier's facility
- Confirming that the supplier's quality management system is being utilized effectively

SIFE - Source Inspector Fixed Equipment focuses primarily on pressure containing equipment and structural equipment, including: vessels, columns/towers, heat exchangers, piping, valves, pressure relief devices, tubulars, and associated structural fabrications.

The API SIFE exam is 3.25 hours long. There are 110 questions, of which only 100 are scored. The remaining 10 are pre-test, which are not scored.

It covers a wide range of inspection activities, codes, recommended practices and standards:

API 572, Inspection of Pressure Vessels

API 577, Welding Inspection and Metallurgy

API 578, Material Verification Program for Alloy Piping Systems

AWS D1.1, Structural Welding Code; Recommended Practice

ASNT SNT TC-1A Personal Qualification and Certification in Non destructive Testing Personnel

ASME Sec. II, V, VIII, IX

ASME B31.3; ASME B16.5

SSPC – PA 2 & SSPC-SP1 Solvent Cleaning, SSPC-SP 1, 3, 5, 6, 7, 10, 11

As you can see, it touches a wide range of subjects that a static equipment inspector shall be familiar with; although not as an expert with an in-depth knowledge.

API provides a very useful guide for Source Inspector Fixed Equipment (SIFE) that covers all the possible activities for inspection management of static or fixed equipment packages

https://www.api.org/~media/Files/Certification/ICP/ICP-Certification-Programs/SI_Suite_Documents/SIFE/SIFE_StudyGuide_English_Update-9-17-2015.PDF

Area of examination scores

You are scored for your performance in the following areas during the examination:

Assessment Area	No. of Questions
Basic Source Inspection	31
Inspection Reference Documentation	19
Manufacturing Process	20
Inspection Tools and Equipment	5
Methods of examination and testing	25
Total Score	100

Body of Knowledge:

The following modules presented during the classroom training to cover the body of knowledge:

Module 1: Exam & study tips

Module 2: Package Inspection management (Equipment Criticality; Metallurgy; Manufacturing; PIM; ITP, PQP; PO; NCR; Punch List; Inspection Release; MRB

Module 3: Tests; QC Procedures and Tests reports

Module 4:ASME Sec. VIII & API 572

Module 5:ASME Sec. II, IX & AWS D.1.1

Module 6:ASME B31.3; ASME B16.5

Module 7:API 577; API 578

Module 8:API 598

Module 9:ASME Sec. V; ASNT SNT TC-1A

Module 10:SSPC

Module 11: 2 sets of mock exams to cover the important topics within the body of knowledge

Course Itinerary

Day 1:

- Exam & study tips; Inspection management (Equipment Criticality; Metallurgy; Manufacturing; Test; PIM; ITP, PQP; QC Procedures and reports; PO; NCR; Punch List; Inspection Release; MRB; Safety

Day 2:

- ASME Sec. II; ASME Sec. VIII & API 572; ASME Sec. IX; AWS D.1.1; ASME B31.3; ASME B16.5

Day 3:

- API 577; API 578; API 598; ASME Sec. V; ASNT SNT TC-1A; SSPC; Review of important questions within course material mock exam.

Day 4:

- Mock exam, review of questions, Q & A

Each day consists of 4 sessions. Each session lasts 1 hour 50 minutes.