BODY OF KNOWLEDGE FOR API SIFE SOURCE INSPECTOR FIXED EQUIPMENT CERTIFICATION EXAM

The API Source Inspector programs qualify individuals who perform the important task of quality surveillance of materials, equipment, and fabrications at the supplier/vendor level in the oil, petrochemical and gas industries. API 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
- associated structural fabrications.

The exam consists of 110 scored questions and 10 pretest questions; and runs for 3 hours and 15 minutes; no references are available during the exam, and nothing may be brought into the test center.

The exam focuses on the content of the following referenced publications.

REFERENCE PUBLICATIONS:

A. API Publications

- **API Recommended Practice 588,** *Source Inspection and Quality Surveillance of Fixed Equipment*
- **API Recommended Practice 572,** *Inspection of Pressure Vessels*
  - *Sections 3 and 4*
- **API Recommended Practice 577**, *Welding Inspection and Metallurgy*
- **API Recommended Practice 578**, *Material Verification Program for Alloy Piping Systems*
- **API Standard 598**, *Valve Inspection and Testing*

B. American Welding Society (AWS)

- **AWS D1.1,** *Structural Welding Code – Steel*

C. American Society of Nondestructive Testing (ASNT)

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

D. American Society of Mechanical Engineers (ASME)

- **Section II Materials**, *Part A, B, C, D*
- **Section V,** *Nondestructive Examination*
- **Section VIII,** *Rules for Construction of Pressure Vessels, Division 1 and 2*
- **Section IX,** *Welding and Brazing Qualifications, Welding only*
- **ASME B31.3,** *Process Piping*
- **ASME B16.5,** *Pipe Flanges and Flanged Fittings*

E. Society for Protective Coatings (SSPC)

- **SSPC – PA 2,** *Procedure for Determining Conformance to Dry Coating Thickness Requirements*
- **SSPC Surface Preparation Guide**
    - **SSPC-SP1,** *Solvent Cleaning*
    - **SSPC-SP3,** *Power Tool Cleaning*
    - **SSPC-SP5,** *NACE 1 White Metal Blast Cleaning*
    - **SSPC-SP6,** *NACE 3 Commercial Blast Cleaning*
    - **SSPC-SP7**, *NACE 4 Brush-Off Blast Cleaning*
    - **SSPC-SP10,** *NACE 2 Near-White Blast Cleaning*
    - **SSPC-SP11,** *Power Tool Cleaning to Bare Metal*

Candidates are expected to demonstrate knowledge in the following categories:

1. **Definitions, Abbreviations and Acronyms**
2. **Trainings**
3. **Source Inspection Management Program**
4. **Project Specific Source Inspection Planning**
5. **Development of a Source Inspection Project Plan**
6. **Source Inspection Performance**
    - Industry Codes
    - Welding Procedures and Qualifications
    - Report Writing
7. **Examination Methods, Tools and Equipment**
8. **Final Acceptance**
9. **Manufacturing and Fabrication (M&F) Processes**
10. **Pressure Vessels**
11. **Piping**