



American Petroleum Institute (API) Standards Course

31 January – 4 February 2027
Cairo (Egypt)





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Ref: 15537_313897 **Date:** 31 January – 4 February 2027 **Location:** Cairo (Egypt) **Fees:** 4000 Euro

Introduction:

This American Petroleum Institute API standards program provides participants with a comprehensive understanding of American Petroleum Institute API standards, which ensure compliance, safety, and efficiency in the oil and gas industry. Participants will explore the essential standards, guidelines, and best practices established by the API to promote quality, reliability, and integrity across various industry sectors.

The American Petroleum Institute API is a highly respected organization that represents the oil and gas industry in policy, advocacy, and standard-setting. This training thoroughly introduces API, detailing its role in developing API standards and definitions critical for maintaining industry excellence. We will discuss the significance of APIs in the oil and gas industry and the impact of API certification and training on professional competency and operations.

This American Petroleum Institute API Standards course includes a focused emphasis on API 618 Reciprocating Compressors for Petroleum, Chemical, and Gas Industry Services and API 619 Rotary-Type Positive Displacement Compressors, which are essential standards for compressor design, operation, inspection, and safety in gas compression systems used throughout upstream, midstream, and downstream operations.

Targeted Groups:

This American Petroleum Institute API standards course is for professionals within the oil and gas industry, such as engineers, inspectors, project managers, and regulatory compliance officers, keen on enhancing their expertise in API standards:

- Engineers and technical professionals are involved in the design, construction, and operation of oil and gas facilities.
- Quality assurance and quality control personnel are responsible for ensuring compliance with API standards and specifications.
- Procurement and supply chain experts engaged in acquiring API-compliant materials and equipment.
- Health, safety, and environmental HSE advocates strive to enhance safety protocols and risk management practices in alignment with API guidelines.

Course Objectives:

At the end of this American Petroleum Institute API standards course, participants will be able to:

- Develop an extensive understanding of API oil and gas standards, specifications, and recommended practices that are pivotal to the industry.
- Learn the intricacies behind interpreting and applying API standards throughout the project lifecycle, from concept to decommissioning.
- Gain insights into the API certification processes, including assessments of conformity and the functionality of quality management systems.
- Recognize the significance of adhering to API standards for guaranteeing safety, reliability, and environmental conservation.
- Engage with case studies and real-life examples to consolidate the practical application of API standards.
- Prepare thoroughly for API certification exams to attain professional accreditation in specialized API standards disciplines.

Targeted Competencies:

Participants' competencies in this American Petroleum Institute API standards training will include:

- Proficiency in navigating the nuances of API standards documents and distilling technical requirements.
- The capability of deploying API standards for more informed engineering design, material selection, and construction methods.
- Expertise in managing audits, inspections, and evaluations to confirm compliance with API rules and regulations.
- A comprehensive understanding of risk evaluation techniques and how to mitigate them according to API procedures.
- Skills to effectively liaise with all relevant stakeholders regarding the importance of compliance with API standards.
- Readiness to embrace API certifications and commit to the highest professional standards in the oil and gas sector.

Course Content:

Unit 1: Introduction to API Standards in the Oil and Gas Industry:

- Overview of the American Petroleum Institute API and its monumental part in shaping industry standards.
- Insights into the structure, range, and priority of API standards, including their specifications and recommended practices.
- Discuss the critical role of API standards in promoting safety, reliability, and environmental responsibility.

Unit 2: Key API Standards and Specifications:

- Explore pivotal standards such as API Spec 6A, API Spec 5L, and API RP 14C, which are crucial for production standardization.
- Delve into refining standards that affect fixed equipment, such as API RP 571, API RP 520, and API Std 617.
- Understanding pipeline standards, including API 1104, API 570, and API 1169, is crucial for maintaining integrity and conducting effective inspections.
- Incorporate standards for compression equipment, including API 618 for reciprocating compressors and API 619 for rotary-type positive displacement compressors, addressing design, performance, and inspection criteria.

Unit 3: API Certification and Conformity in Oil and Gas:

- Overview of the various API certification programs and the comprehensive accreditation processes established for industry vendors.
- Clarity on conformity assessment procedures, audits, inspections, and the requisites of quality management systems.
- Explore the API Monogram Program and API Q1/Q2 certifications, demonstrating adherence to industry standards.
- Highlight certification requirements and audit focus areas relevant to equipment governed by API 618 and API 619.

Unit 4: Practical Applications of API Oil and Gas Standards:

- Presentation of case studies that showcase the real-world application of API standards in design, construction, and operational stages.
- Best practices on integrating API standards within project management, procurement, and compliance efforts.
- Include examples of compressor system applications and reliability considerations under API 618 and API 619.

Unit 5: Preparing for API Certification Exams:

- Detailed coverage of the API examination prerequisites, eligibility conditions, and test structures.
- Guidance on study strategies, available resources, and practice exams for candidates pursuing API certification in their respective fields.
- Strategy development for maintaining API certifications and satisfying continuous professional education per API recertification prerequisites.

Final Insights & Key Takeaways:

This course aims to provide industry professionals with a thorough mastery of critical American Petroleum Institute API standards—including API Spec 6A, API Spec 5L, API RP 14C, API RP 571, API RP 520, API Std 617, API 1104, API 570, API 1169, and compressor-specific standards API 618 and API 619—to ensure safe, reliable, and efficient design, construction, inspection, operation, and maintenance of oil and gas facilities and equipment. By fostering deep understanding and practical application of these standards, the program supports compliance, risk mitigation, and excellence in operational integrity throughout the asset lifecycle.