



API 510 Exam Publications Effectivity Sheet – FOR: **September 2023, January 2024, and May 2024**

Listed below are the effective editions of the publications required for this exam for the date(s) shown above.

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- **API 510, Pressure Vessel Inspection Code: In-service Inspection, Rating, Repair, and Alteration, 11th Edition, October 2022, with Errata 1 (March 2023)**
- **API Recommended Practice 571, Damage Mechanisms Affecting Fixed Equipment in the Refining Industry, 3rd edition, March 2020**

ATTENTION: Only the following sections / mechanisms from RP 571 are included on the exam:

Section 2	Terms and Definitions
Par. 3.3	Amine Stress Corrosion Cracking
3.8	Atmospheric Corrosion
3.11	Brittle Fracture
3.14	Caustic Corrosion
3.15	Caustic Stress Corrosion Cracking
3.17	Chloride Stress Corrosion Cracking
3.20	Cooling Water Corrosion
3.22	Corrosion Under Insulation (CUI)
3.27	Erosion/Erosion-Corrosion
3.36	High-temperature Hydrogen Attack
3.37	Hydrochloric Acid Corrosion
3.43	Mechanical Fatigue (including Vibration-induced Fatigue)
3.58	Sour Water Corrosion (Acidic)
3.61	Sulfidation
3.67	Wet H ₂ S Damage (Blistering/HIC/SOHIC/SCC)

- **API Recommended Practice 572, Inspection Practices for Pressure Vessels, 4th Edition, December 2016.**
- **API Recommended Practice 576, Inspection of Pressure-relieving Devices, 4th Edition, April 2017.**
- **API Recommended Practice 577, Welding Processes, Inspection, and Metallurgy, 3rd Edition, October 2020.**
- **API Recommended Practice 578, Guidelines for a Material Verification Program (MVP) for New and Existing Assets, 3rd edition, February 2018**
- **American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, 2021 Edition**
 - i. **Section V, Nondestructive Examination, Articles 1, 2, 6, 7 and 23 (Section SE-797 only)**
 - ii. **Section VIII, Rules for Construction of Pressure Vessels, Division 1; Introduction (U), UG, UW, UCS, Appendices 1-4, 6, 8, and 12**
 - iii. **Section IX, Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators, (Welding only)**

- **American Society of Mechanical Engineers (ASME) PCC-2, *Repair of Pressure Equipment and Piping*, 2022**

ATTENTION: The examination will cover each referenced Article and its Appendices

Article 101: Scope, Organization, and Intent
Article 201: Butt-Welded Insert Plates in Pressure Components
Article 202: External Weld Buildup to Repair Internal Thinning
Article 209: Alternatives to Postweld Heat Treatment
Article 210: In-Service Welding Onto Carbon Steel Pressure Components or Pipelines
Article 211: Weld Buildup, Weld Overlay, and Clad Restoration
Article 212: Fillet Welded Patches
Article 215: Repair Welding Considerations for Cr-Mo Steel Pressure Vessels
Article 216: Welded Hot Taps in Pressure Equipment or Pipelines
Article 304: Flaw Excavation and Weld Repair
Article 305: Flange Repair and Conversion
Article 312: Inspection and Repair of Shell and Tube Heat Exchangers
Article 501: Pressure and Tightness of Piping and Equipment
Article 502: Nondestructive Examination in Lieu of Pressure Testing for Repairs and Alternations

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