

CLEAN HYDROGEN at ASME

Portfolio Update, February 2025

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UPCOMING CONFERENCES

Turbomachinery Technical Conference & Exposition (Turbo Expo)

June 16–20, 2025, Memphis, TN

<https://event.asme.org/Turbo-Expo>

A global event for professionals who want to stay current on new technology and industry trends and developments in turbomachinery.

Pressure Vessels & Piping Conference® (PVP)

July 20–25, 2025, Montreal, Quebec, Canada

<https://event.asme.org/PVP>

The event is the ideal platform to keep up with new technologies, network and interact with experts, practitioners, and peers in the Pressure Vessels & Piping area.

International Conference on Energy Sustainability (ES)

July 8–10, 2025, Westminster, Colorado

<https://event.asme.org/ES>

The event focuses on innovative technologies, research and design advances, and solutions toward a path of renewable and sustainable energy, including utility-level systems integration.

For other ASME events see [Conference & Event Overview](#)

CODES & STANDARDS MEETINGS

ASME BPVC [Boiler and Pressure Vessel Code Week](#)

- **May 11–16, 2025**, Salt Lake City, UT
- **August 3–8, 2025**: Virtual
- **November 2–7, 2025**: Dallas, TX

ASME B31.3 Process Piping Code Week

B31.3 Process Piping Committee

B31.12 Hydrogen European International Working Group

April 7–11, 2025, Amsterdam, Netherlands

<https://event.asme.org/B31-3>

HYDROGEN FOR THE GREEN ECONOMY STEERING COMMITTEE

- ASME formed the Hydrogen for a Green Economy Steering Committee to identify industry needs and propose products and services to address those needs through cross-Society recommendations.

- Published [Guidelines to ASME Standards in Hydrogen Value Chains \(TPG-1\)](#), free to download. The Document provides a roadmap of the existing standards in hydrogen value chains and identifies relevant ASME and other SDO's standards for specific hydrogen applications.



For more information, see [Steering Committee](#)

PRESSURE TECHNOLOGY STANDARDS

[ASME Pressure Technology Codes and Standards](#)

exist to ensure public safety, support global trade, develop technology, and foster knowledge transfer while easing government's regulatory burden. ASME develops consensus standards which can be adopted, applied, and accepted globally.

The following are the most relevant hydrogen-related standards for the hydrogen value chains (production, transportation, storage, and end use):

[Boiler Pressure Vessel Code Sections](#)

- BPV VIII, Division 1 - Rules for Construction of Pressure Vessels Division 1
- BPV VIII, Division 2 - Rules for Construction of Pressure Vessels Division 2 – Alternative Rules
- BPV VIII, Division 3 - Rules for Construction of Pressure Vessels Division 3 - Alternative Rules for Construction of High-Pressure Vessels
- BPV X - Fiber-Reinforced Plastic Pressure Vessels
- BPV XII - Rules for Construction and Continued Service of Transport Tanks
- BPV II, V, IX & XIII Service Sections

[Pipelines and Piping Standards](#)

- B31.12 Hydrogen Piping and Pipelines
- B31.3 Process Piping
- B31.8 Gas Transmission and Distribution Systems
- B31.8S Managing Systems Integrity of Gas Pipelines

Participate in Standards Development

Committees meet on a regular basis to update these standards. All committee meetings are open to the public and all industry stakeholders are welcome to join the process. No cost to be a committee member, and one does not need to be an ASME



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member to be on a committee. [Contact the Staff Secretary](#) for more information.

To learn more, visit: go.asme.org/joinCS

CERTIFICATIONS

[Boiler and Pressure Vessel Certification Program](#)

The ASME BPVC Certification Program conforms to the rules governing the design, fabrication, assembly, and inspection of boiler and pressure vessel components during construction.

[Section VIII Division 1 – Pressure Vessels \(U, UM\)](#)

[Section VIII Division 2 – Pressure Vessels \(U2\)](#)

[Section VIII Division 3 – Pressure Vessels \(U3\)](#)

[Section X – Reinforced Vessels \(RP\)](#)

[Section XII – Transport Tanks \(T, PRT\)](#)

[Quality Program for Suppliers \(QPS\)](#)

The QPS program is for any general industry organization regardless of the type of products produced or the size of the company. Typical companies that would benefit from QPS would be, but are not limited to:

- raw material manufacturers - ingots, slabs, additive materials
- material manufacturers - forgings, piping, fittings, castings, bolts and nuts, plates, filler metal (materials for welding)
- manufacturers with or without design responsibility - valve manufacturers, oil & gas, power, additive manufacturing, green industries
- service providers - NDE, auditing, heat treating, welding, cladding, machining, coatings

For learn more, visit: [Certification and Accreditation](#)

LEARNING & DEVELOPMENT

Courses on the requirements of the Pressure Vessels codes and Pipeline & Piping standards throughout the lifecycle, from design, operation, in-service inspection and quality assurance.

[In-Person Courses](#)

- **New Course:** [IPPD654](#) - ASME B31.3 Process Piping Code Overview; **April 10**, Amsterdam, Netherlands
- **New Course:** [IPPD889](#) - ASME Section VIII Overview for Hydrogen Storage Design; **April 8-9**, Amsterdam, Netherlands

[Video-based On Demand Courses](#)

- **New Course:** [EL575](#) - B31.12 Hydrogen Piping and Pipelines (On Demand)

- **New Course:** [EL576](#) – Advanced B31.12 Hydrogen Piping and Pipelines (On Demand)
- [EL548](#) - Failure Prevention, Fitness-for-Service, Repair and Life Extension of Piping, Vessels and Tanks (On Demand)
- [EL558](#) - ASME B31.3 Process Piping Code (On Demand)
- [EL564](#) - Overview of QPS (Quality Program for Suppliers) General Industry

[UPDATED Self-Study Courses](#)

- [LP101](#) - ASME B31 Process and Power Piping Design Learning Path

[UPCOMING Virtual Classes](#)

- [VCPD014](#) - ASME B31.3 Process Piping Design (Virtual Classroom); **May 5-9**
- [VCPD370](#) - ASME B31.8 Gas Transmission & Distribution Piping Systems (Virtual Classroom); **Mar. 17-20**
- [VCPD443](#) - ASME BPV Code, Section VIII, Division 1: Pressure Vessel Combo Course (Virtual Classroom); **Apr. 14-22 & Jun 9-17**
- [VCPD837](#) - ASME B31.3 and B31.1 Practical Piping Design for Process and Power Applications (Virtual Classroom); **Jun. 2-6**

For more ASME courses visit: [Find Courses](#)

ASME's COURSE BUILDER

ASME wants your ideas and is accepting applications to develop **new** [On Demand Courses](#).

ASME is accepting applications for self-study courses. These courses are 100% online where students can learn independently at their own pace.

For information - LearningExperience@asme.org

PUBLICATIONS - ASME Digital Collection

[Journals](#)

- Journal of Electrochemical Energy Conversion and Storage
- Journal of Energy Resources Technology
- Journal of Engineering for Gas Turbines and Power
- Journal of Fluids Engineering
- Journal of Heat and Mass Transfer
- Journal of Pressure Vessel Technology
- Journal of Verification, Validation and Uncertainty Quantification

For learn more, visit: [Find Journals](#)



See ASME.org/Resources/Clean_Hydrogen

Scan for more information

