



Choose certainty.
Add value.

ASME Boiler and Pressure Vessel Code

Ensure compliance and gain access to international markets.

Your challenges

Due to the potential dangers associated with pressure equipment, manufacturers need to ensure that their products are designed, manufactured, inspected and tested in compliance with the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code. Originally intended for manufacturers exporting to North America, the ASME Code is increasingly being applied as a requirement for accessing other global markets. Without ASME certification, manufacturers may find export barriers hindering their international operations. Plant operators also need to ensure the operational efficiency and safety of their pressure equipment and components throughout the plant's lifecycle. Pressure equipment stakeholders require the help of experienced experts to mitigate safety risks and prevent equipment damage.

What is the ASME Code?

The ASME Code is a leading standard for pressure

equipment and components worldwide. It establishes the requirements for manufacturer certification and quality assurance. In addition, the ASME Code sets rules for the design, materials, manufacturing, inspection, testing and operation of boilers and pressure vessels (including power boilers, heating boilers, nuclear facility components, fibre-reinforced plastic pressure vessels and transport tanks).

Why is the ASME Code important for your business?

The ASME Code is recognised in the U.S., Canada and over 100 other countries. Manufacturing, repairing or altering your pressure equipment in accordance with the Code helps you to access opportunities in these markets. Affixing the ASME certification mark to your pressure equipment inspires greater confidence among your business partners, end users and authorities. It is regarded as the hallmark of acceptance and certification that indicates conformity to the Code.

How can we help you?

TÜV SÜD is a partner of ARISE BIIC – an ASME-accredited U.S. authorised inspection agency (AIA). Authorised via ARISE BIIC, our ASME inspectors (AIs) offer comprehensive and efficient support on all aspects of the ASME Code. Benefit from our expertise in:

- Section I (Power Boilers)
- Section II (Materials)
- Section III (Nuclear Facility Components)
- Section IV (Heating Boilers)
- Section V (Non-Destructive Examination)
- Section VIII, Div. 1, 2 and 3 (Pressure Vessels)
- Section IX (Welding and Brazing Qualifications)
- Section X (Fibre-Reinforced Plastic Vessels)
- Section XI (Rules for In-Service Inspection of Nuclear Power Plant Components)
- Section XII (Rules for Construction and Continued Service of Transport Tanks)

Our ASME Code work and additional services

- **Consulting, codes and standards engineering**
We offer consulting services as well as support in establishing a quality assurance (QA) programme and quality control (QC) system. We assist with ASME certification audit preparation, review and acceptance of quality programmes and procedures, evaluation of equivalence to different codes and standards for components, and application for manufacturer certification.
- **Design calculations/design review**
TÜV SÜD supports you with review/preparation of calculations as per the ASME Code.
- **Welding, brazing and NDT consultancy**
We assist you with procedures for welding, brazing, non-destructive examination or special circumstances. Our services include certification of welders and welding procedures and NDT consulting by ASNT inspectors.
- **Authorised inspection**
As a partner of ARISE BIIC, TÜV SÜD inspects components to be delivered with or without the ASME certification mark.
- **Third-party inspection and audits**
Our authorised inspectors (AI) and supervisors (AIS) inspect manufactured components, perform audits of ASME Certificate holders, and conduct vendor evaluations and audits.
- **Training**
We offer ASME workshops to train your personnel to ASME Code requirements as well as Owner/User certification programmes.

Your business benefits

- **Save time and money** – through our extensive experience with the ASME Code.
- **Minimise risk** – by identifying and avoiding non-conformities from the onset.
- **Access international markets** – with CE marking and ASME Code services from a single source. We are a Notified Body appointed under the Pressure Equipment Directive 97/23/EC.
- **Work with an expert partner** – who is familiar with the state of the art and statutory regulations.
- **Gain wide recognition of certification** – with TÜV SÜD's reputation for independence and impartiality.

Why choose TÜV SÜD?

TÜV SÜD is widely known as an independent third-party solutions provider. Our impartial and reliable reports provide a credible basis for decision-making. We assess each project objectively and with absolute expertise, ensuring you obtain unfiltered information. TÜV SÜD's global interdisciplinary team comes from a variety of different engineering specialisations, with decades of accumulated experience in international public, private and joint-sector projects. Our strong international presence ensures that you will receive a consistent level of premium quality in any region.

Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and assessment services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

Related services

TÜV SÜD provides the following related services:

- Pressure equipment manufacturer services
- Pressure equipment operator services
- Transportable pressure equipment
- Pipelines
- Materials technology and welding engineering
- Non-destructive testing for industrial plants and systems
- Fabrication and quality assurance