

Message

For the Sustainable Safety and Security of the Economy, Society, and Daily Life

The High Pressure Gas Safety Institute of Japan is a specialized agency for high-pressure gas safety established under the High Pressure Gas Safety Act. Established in 1963, the institute has built a long history spanning over 60 years.

Specific responsibilities include, first, in the technical field: conducting inspections to ensure the safety of high-pressure gas facilities and equipment; conducting examinations and delivering training services for obtaining qualifications as responsible persons; formulating technical standards; and conducting accident investigations. Furthermore, leveraging the insights gained through the performance of these responsibilities, we also provide ISO certification services related to the soundness of internal controls as a fair and trustworthy institution.

Therefore, our stakeholders consist of not only chemical companies that require high-pressure gas, but also a wide range of businesses such as industrial complexes, semiconductor manufacturers, and refrigeration companies, as well as LPG and other gas users such as consumers. In addition to these areas, the operational aspects of safety regulations involve a broad range of stakeholders, including national and local governments, relevant academic experts and others and, in recent years, we have also been focusing on international collaboration with related organizations.

Amid growing market interest in carbon neutrality, the social implementation of new applications of high-pressure gas such as hydrogen and CCS is recognizing as a key issue.

Recognizing that establishing standards and specifications (standards, etc.) and assessing conformity with such standards, etc. are critical challenges for ensuring safety in this field, we will take proactive measures from the perspective of integrated regulation and promotion.

From the outset, ensuring safety inherently involves externalities that cannot be regulated by the market mechanism alone. We recognize that the wide-ranging applications of high-pressure gas make its availability an essential public asset for sound socio-economic development.

While the High Pressure Gas Safety Act aims to establish a legal framework grounded in self-regulation, we understand that the High Pressure Gas Safety Institute of Japan, while maintaining self-regulation as its core principle, is also required to support its proper implementation from the perspective of a specialized third party, and that it must work closely with the field to prevent the emergence of negative externalities and reduce the risk of incidents.

The High Pressure Gas Safety Institute of Japan believes that its role is to practice mitigating such risks through the performance of undertakings such as developing standards. Based on this understanding, we will continue to respond promptly to changes in industry and society while contributing to their sound development. We look forward to the effective communication and close collaboration with our members and all related industries.



KATO Yoichi

President

The High Pressure Gas Safety Institute of Japan

KHK acts as the core institution of high pressure gas safety in Japan through the wide range of activities.



Development of technical standards (KHK Standards)

KHK develops technical standards required to ensure safety in the handling of high pressure gas, including the production, sale, consumption, and transportation of high pressure gas and to promote self-regulated safety activities.

- Of the standards established, 35 standards are utilized by the Japanese government as a supplement to laws and regulations.
- KHK provides advice and suggestions to the Minister of Economy, Trade and Industry concerning technical matters relating to the high pressure gas safety.



Inspection and certification in accordance with the High Pressure Gas Safety Act

KHK confirms the safety of high pressure gas equipment, vessels, etc., and conducts investigations for accreditation related to the safety management system of business operators.

- Inspection of cold evaporators, heat exchangers, compressors, and refrigerators.
- Inspection of containers and container valves
- Certification of LPG detectors, carbon monoxide detectors, etc.
- Investigation for accreditation of industrial complex operators, etc., and assessment of seismic reinforcement.



Study and provision of information on accidents involving high pressure gas and LPG, and overseas activities.

KHK collects and analyzes information on high pressure gas-related accidents that have occurred in Japan and overseas, and strives to promptly disseminate information. KHK also provides support activities as a contact point for consultation and technical cooperation from overseas.





Toward the realization of social implementation of hydrogen

With an eye on the important role hydrogen is expected to play as a zero-carbon fuel that does not emit CO₂ (carbon dioxide) during combustion, KHK is working to realize safe and secure social implementation of hydrogen.

- Development of hydrogen-related technical standards
- Participation in hydrogen and ammonia-related organizations, etc., and strengthening of cooperation.
- Provision of new services to promote the widespread use of hydrogen
- Dissemination of hydrogen-related information
- Surveys on overseas trends and international standards related to hydrogen



National qualifying examinations and statutory qualification training courses

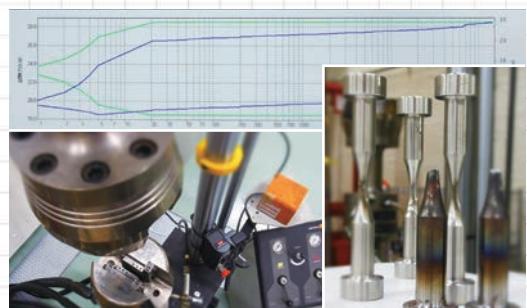
KHK conducts national qualifying examinations nationwide in accordance with the High Pressure Gas Safety Act and the Act on the Securing of Safety and the Optimization of Transaction of Liquefied Petroleum Gas. KHK also provides qualification training courses, statutory training courses required after qualification, and various safety seminars.

- Twelve national qualifying examinations
- Online training courses and seminars
- Visiting training courses
- Sale of books and other publications such as law and regulation handbooks, training course textbooks, and KHK Standards.



Research and development and commissioned tests for the improvement of safety

The Research & Development Center (Machida-shi, Tokyo) accumulates basic data on various materials and conducts tests commissioned by the national government and private companies and organizations, such as fatigue cycle tests for pressure vessels.



Certification (registration) of management systems

KHK provides certification services for various ISO management systems, utilizing its experience and knowledge in inspection and certification work, etc., and its extensive technical capabilities. KHK also provides various events, seminars, and members' magazines for companies planning to be certified, in cooperation with support organizations.



- Quality (ISO 9001)
- Environment (ISO 14001)
- Occupational health and safety (ISO 45001)
- Medical device quality (ISO 13485)
- Food safety (ISO 22000)



Organization Chart of The High Pressure Gas Safety Institute of Japan

(As of January 1st, 2023)

