

The High Pressure Gas Safety Institute of Japan



特別民間法人

**高压ガス保安協会**

The High Pressure Gas Safety Institute of Japan

Since its establishment in 1963, the High Pressure Gas Safety Institute of Japan (KHK) has devoted its utmost efforts to activities to prevent disasters caused by high-pressure gases and to promote self-governing safety.

In response to the widespread adoption and maturation of high-pressure gas utilization in industry, recent technological advancements, and the diverse safety approaches among businesses, we have defined our “purpose, missions, and values” to serve as a bridge between industry and public administration, facilitating the further advancement on self-governing safety and contributing to the industrial economy.

## Purpose

As a leader for implementing self-governing safety, KHK will continue to explore proactiveness, and drive the industrial economy forward by deepening society’s trust.

## Missions

- KHK will respond swiftly to technological developments and societal changes both domestically and internationally, contributing to the safety of high-pressure gases.
- KHK will proactively and appropriately develop, disseminate, and establish institutional infrastructures in a timely manner, while ensuring international harmonization.
- KHK will cultivate security personnel who support the organization.

## Values

- **Impartiality** As an independent third-party organization, we will conduct impartial operations with ensuring public safety as our core value.
- **Expertise** Each individual will continually hone their skills as a professional possessing advanced knowledge and experience.
- **Proactiveness** We will have proactiveness to tackle new challenges arising from the development of industrial society.
- **Swiftness** We will perform our activities promptly and reliably to follow along with the development of industrial society.
- **All-out initiative** We will respond flexibly to the needs of industrial society through respect for diversity and teamwork.

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

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

Specific responsibilities in the technical field include inspecting high-pressure gas facilities, conducting examinations and delivering training services, establishing technical standards for ensuring safety, and investigating accidents. Furthermore, leveraging the insights gained through the performance of these responsibilities, we also provide ISO certification services related to the soundness of internal controls.

From the outset, ensuring safety inherently involves externalities that cannot be governed 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. Although the High Pressure Gas Safety Institute of Japan places importance on self-governing safety, we understand that it is required to support our stakeholders to properly implement their safety measures from the perspective of a specialized third party, and must work closely with the field in order to prevent negative externalities and suppress the occurrence of risks.

To mark the 40th anniversary of our transition to an exclusively legalized non-governmental association, we have redefined our purpose (the purpose of the institute's existence), missions (the institute's vision to pursue), and values (the ideal conduct of employees) to reaffirm our ideal state. Based on these principles, we will continue to make further contributions to industry and society. We are committed to proactively addressing the safety concerns, not only for conventional operations but also for the societal implementation of new high-pressure gas applications (hydrogen, CCS, etc.), which are crucial for achieving carbon neutrality, in line with recent needs.

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-governing safety activities.

- Of the standards established, 35 standards are utilized by the Japanese government as a supplement to acts, ordinances and ministerial notifications.
- KHK provides opinions 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 storage tanks, heat exchangers, compressors, and refrigerators
- Inspection of cylinders and cylinder 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 collaboration with international organizations

KHK collects and analyzes information on high-pressure gas-related accidents and strives to promptly disseminate information. KHK also serves as the point of contact for inquiries from overseas regarding high-pressure gas and LPG, as well as for collaboration with international organizations.





## 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 CO<sub>2</sub> 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 newsletters 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)



