THE IAPMO GROUP

Company profile and background of collaboration efforts to enhance Plumbing Systems for the Republic of Indonesia
The International Association of Plumbing and Mechanical Officials (IAPMO) was founded on May 17, 1926, with the mandate “to advance the latest and most improved methods of sanitation; to promote the welfare of and harmony between the owner, the builder, and the craftsman; to accomplish a uniformity in the application of the provisions of the ordinances; and to promulgate the mutual benefit of the members.” The IAPMO Group focuses its comprehensive capabilities in the technical aspects of the plumbing and mechanical industries through its extensive knowledge base, which includes regulators, professional contractors, labor force, and manufacturers.

The founding members of IAPMO first gathered to begin writing a model code to protect the health of the people they served from inept plumbing practices. There were 39 Southern California plumbing inspectors in the first group, including Charles Collard, the association’s first president, and Stephen Smoot, who served as association secretary from 1926 to 1954. Since then, IAPMO has grown to be recognized the world over for its Uniform Codes. With offices in 11 states and twelve countries, IAPMO has assisted with code development in such diverse places as Saudi Arabia, China, India, Jordan, Egypt, Israel, Vietnam, Indonesia, Philippines, Venezuela, Colombia, and Abu Dhabi of the United Arab Emirates, and in support of the World Plumbing Council has also worked with the World Health Organization to help bring sound, efficient plumbing systems to developing nations.

Comprised more than 10 different business units, The IAPMO Group is truly the one-stop shop for all plumbing and mechanical code and product compliance, education, and standard development.

The IAPMO Group’s future is equally bright with the commitment to grow core competencies within the code and standards development, education, testing and product certification arenas. As new products are brought onto the market, IAPMO continues to expand the capabilities of its testing and certification to anticipate client needs. By maintaining this leadership position, IAPMO supports research on new and emerging plumbing and mechanical technologies. As many of the new products and systems are designed with increased sustainability within the built environment, these changes require the standardization of plumbing and mechanical system design. With this, the cycle comes full circle: IAPMO’s focused commitment to safe, innovative plumbing and mechanical systems.
To address the need for plumbing education in Indonesia, the International Association of Plumbing and Mechanical Officials (IAPMO) is seeking to provide plumbing education and training throughout the country. The goal of the program is to prepare the multiple levels of professional groups to read, understand, interpret, engage and apply the provisions of the new SNI 8153:2015 (Plumbing System for Building) that was recently published in collaboration with Badan Standardisasi Nasional (BSN) to design, initial installations and the continued maintenance of plumbing systems.

The goal of the program will be achieved through joint venture and collaboration with established educational institutions throughout Indonesia. The program seeks to partner with Universities, Colleges, polytechnics and Vocational Institutions that can provide quality instruction toward our stated goals.
WHAT IS PLUMBING?

Water Treatment
Government/Private Sector/Municipality

Plumbing System
IAPMO
SNI 8153:2015

Waste Water Treatment
Government/Private Sector/Municipality

No Standard Enforced
Enforcement of good plumbing system standards is important:

- **Ensures safety and health of Indonesian citizens** through the installation of sound plumbing systems that employ certified plumbing fixtures. This will improve the safety of the building occupants and will prevent the spread of harmful pathogens and other health issues.

- **Advancement of the Indonesian economy** through the increase in the number of skilled plumbers, significant reduction of repair costs in buildings, and lower medical related expenses due to improved sanitation conditions.

- **Improvement to the Environment** because Indonesia will have higher quality plumbing products and will reduce its dependency on bottled water. Safe plumbing systems are also water and energy efficient, reducing waste and conserving essential resources.

- **Good for Indonesia** as it will have a positive impact on tourism and attract foreign investors.

Lack of good plumbing systems and non-enforcement of plumbing standards could be detrimental:

- Treated water is useless if the building it supplies does not have a good plumbing system. Treated water can be contaminated by substandard plumbing fixtures and incorrect plumbing installation.

- Substandard plumbing fixtures and poor plumbing installation could be harmful to people, for example:
  - elevated levels of lead in plumbing fixtures can cause cancer and other health issues*,
  - toxic sewer gas entering the building from poorly installed toilets/bathtubs/sinks can cause respiratory problems,
  - water transmits disease – 88% of diarrhea cases worldwide are due to unsafe water and inadequate sanitation and hygiene,
  - growing mold because of leaks due to faulty pipes can trigger asthma and allergy,
  - defective water trap seals in the drainage systems can spread harmful pathogens such as SARS**, etc.

- Financial losses due to property damage in the buildings and wasted money for repairs and replacing substandard plumbing parts.

- Economic losses and negative environmental impacts result if markets become a dumping ground for cheap and substandard plumbing products. This increases dependency on bottled water and will significantly lower Indonesia's GDP (Gross Domestic Product)***.

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* According to the U.S. Environmental Protection Agency, lead in drinking water has some significant health effects, including children under 6 can have delayed mental and physical development, some children under 6 can experience slight deficits in their attention span and learning capabilities, and prolonged adult exposure can create high blood pressure or kidney problems.

**The World Health Organization’s Environmental Investigation into the outbreak states that defective water trap seals in the drainage system was a major contributor to the spread of SARS (Severe Acute Respiratory Syndrome) in Hong Kong.

***According to World Bank, poor sanitation has direct impact to the GDP of a country. For example, Indonesia suffers a 2.3% GDP loss (equivalent to 56 trillion Rupiah) due to poor sanitation, Kenya suffers a 0.9% GDP loss each year (equivalent to US$324 millions) each year due to poor sanitation, and in 2006 India suffers a 6.4% GDP loss (equivalent to US$3.8 billions) due to poor sanitation.
IAPMO
The International Association of Plumbing and Mechanical Officials has been protecting the public's health and safety for more than eighty five years by working in concert with government and industry to implement comprehensive plumbing and mechanical systems around the world.

As a membership-based association, IAPMO is proud to utilize an open consensus process in the development of our flagship Uniform Plumbing Code® and Uniform Mechanical Code®. These codes are established through scientific research, debate, and analysis, strengthening our position at the forefront of the plumbing and mechanical industries.

The IAPMO Group is a complete service organization, providing code development assistance, industry-leading education, plumbing and mechanical product testing and certification, building product evaluation and a manufacturer-preferred quality assurance program. Each component of the IAPMO Group works toward playing an integral part in protecting the health of people everywhere.

IAPMO R&T
IAPMO R&T is the premier plumbing and mechanical product certification agency. IAPMO R&T understands the importance of “speed to market” and tailors turnaround times to meet almost any deadline, never compromising quality of service nor strength of the listing to do so. IAPMO R&T staff works with clients around the globe to provide flexible, local resources to accommodate their needs.

As the preferred listing agency of manufacturers and inspectors, the IAPMO R&T brand and its reputation for quality are unparalleled in the industry. IAPMO R&T Marks of Conformity are widely recognized and represent the highest degree of integrity in showing compliance with established codes and standards.

IAPMO R&T Lab
Backed by more than 80 years of IAPMO experience, IAPMO R&T Lab is a trusted name for independent testing, research, and technical services in the plumbing and mechanical industries. IAPMO R&T Lab is accredited to ISO/IEC 17025 and capable of testing to more than 400 standards as well as providing special services such as Research and Development, training, quality assurance, failure analysis, and witness/field testing.

IAPMO Uniform ES
IAPMO Uniform ES offers manufacturers and building officials another option as an evaluator of building products. IAPMO Uniform ES is accredited by the American National Standards Institute (ANSI). This means that building products, materials and designs bearing the IAPMO Uniform ES mark of conformity are trusted for their conformity and workmanship by contractors, inspectors, architects, engineers, officials and Authorities Having Jurisdiction.

PT IAPMO Group Indonesia
PT IAPMO Group Indonesia is a trusted name for independent testing and certification in plumbing industry for Indonesian market. The new, state-of-the-art facility in Bekasi, Jawa Barat, provides a convenient and added confidence for plumbing manufacturers in assuring that their products meet the new SNI 8153:2015 requirements. Backed by 90 years of experience in the plumbing industry and recognized by the plumbing industry over its testing and certification knowledge and experience, PT IAPMO Group Indonesia fully understands the importance of the value of quality, timeliness and customer needs.
IAPMO R&T Oceana
Based in Melbourne, IAPMO R&T Oceana is accredited by the Joint Accreditation System of Australia and New Zealand (JAS-ANZ). With a worldwide presence, IAPMO R&T Oceana has the flexibility and capability to provide first-class service anywhere in the world. IAPMO R&T Oceana personnel have extensive knowledge and experience in the business of certifying products in both the water and gas industry sectors. IAPMO R&T Oceana certifies plumbing and drainage products to use the WaterMark™ symbol to meet regulatory requirements. In addition, IAPMO R&T Oceana also offer certification services to its own OceanaMark™ and GasMark™ product certification schemes to Australian and International Standards.

IAPMO R&T Registration Services
With a strong emphasis on customer service, IAPMO R&T Registration Services takes the hassle out of becoming certified to management systems standards, such as ISO 9001, ISO 14001 and OHSAS 18001. IAPMO R&T Registration Services is accredited by the ANSI-ASQ National Accreditation Board (ANAB) and Komite Akreditasi Nasional (KAN). IAPMO R&T Registration Services performs value added auditing that improves the effectiveness of the client’s management system. IAPMO R&T Registration Services provides a return on investment by using qualified auditors who recognize that systems should aid the organization towards growth, effectiveness and profitability.

IAPMO Standards
IAPMO is an ANSI-accredited Standards Development Organization (SDO) that, through its Standards Department, develops and publishes IAPMO/ANSI consensus standards such as the Z124 Series for plastic plumbing fixtures and the Z1000 Series for waste disposal products. More recently, IAPMO has developed harmonized standards with other accredited SDOs, such as CSA (Canadian Standards Association). IAPMO has developed some of its non-consensus standards into ANSI standards in response to industry and jurisdiction needs. The IAPMO Standards Department also represents IAPMO in many SDOs and industry associations throughout North America. These organizations include ANSI (American National Standards Institute), ASME (The American Society of Mechanical Engineers), ASSE (American Society of Sanitary Engineering), CSA, PPFA (Plastic Pipe and Fittings Association), PPI (Plastics Pipe Institute), and RVIA.

IAPMO EGS
IAPMO EGS is a trusted name for independent testing and listing for pool, spa and bathtub industries. IAPMO EGS is committed to providing quality testing and listing services at competitive rates in a timely manner. IAPMO EGS knowledgeable staff work with manufacturers to ensure that testing and listing project is being handled efficiently, helping to get their product to market faster.

ASSE International Chapter of IAPMO
The American Society of Sanitary Engineering is a nonprofit organization that is comprised of individual and sustaining members who represent all disciplines of the Plumbing Industry. Its professional membership develops and maintains both product and professional Qualification standards for the plumbing and mechanical industry while also administering one of the most recognized plumbing product certification programs.

IAPMO India
IAPMO Plumbing Codes and Standards India Private Limited (known as IAPMO India) was founded in 2007 with offices at Bengaluru and Pune. This resulted in IAPMO India and the Indian Plumbing Association (IPA) working together to develop latest and comprehensive plumbing codes and training and education programs for code based plumbing installations and maintenance for all of India.
Radiant Professional Alliance
Since 1994, the RPA has been promoting radiant heating as comfortable, efficient, and healthy on behalf of its network of dedicated members who share the desire to advance the understanding and acceptance of radiant and hydronic technology. In addition to promoting the industry, the RPA delivers first-rate assistance to its members. RPA provides up-to-date reference materials and publishes industry leading publications, such as the Radiant Flooring Guide and Radiant Living Magazine. RPA also delivers first-rate expert led training seminars and state-of-the-art educational webinars on topics about contemporary hydronic and radiant systems. An annual membership meeting and conference is held which hosts a competition for RPA members to showcase their work.

IAPMO Green Plumbers Training
GreenPlumbers® is an innovative training and accreditation program that assists plumbers, inspectors and other building officials in understanding their roles in the environment and public health. The goal of GreenPlumbers Training and Accreditation is to train and deploy thousands of residential and commercial “green” plumbers to promote the benefits of water conservation and the reduction of GHG emissions. The focus is on changing consumer and plumbing behavior through the use of energy efficient and water-saving technologies. GreenPlumbers works with the plumbing industry, building officials, utilities and water agencies to implement the GreenPlumbers program. The training consists of a five-part accreditation in environmental and technical issues including Caring for our Water, Climate Care, Water Efficient Technology, Solar Hot Water and an Inspection Report Service. Since the first classes in late 2007 GreenPlumbers has trained more than 7,000 plumbers in more than 40 states.

IAPMO Backflow Prevention Institute
The IAPMO Backflow Prevention Institute is committed to providing education, training and awareness to potential hazards to our water supply and resources. The motto of the IAPMO Backflow Prevention Institute® is safe water through plumbing code compliance. Proper training and certification are the keys to achieving that goal. IAPMO’s Backflow Prevention Institute is the industry’s resource for backflow prevention and cross-connection control. It provides training toward professional certification in backflow prevention.

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Need to get your product certified? Choose IAPMO

Founded in 1926, the International Association of Plumbing and Mechanical Officials (IAPMO®) coordinates the development and adaptation of plumbing, mechanical, swimming pool and solar energy codes to meet the specific needs of individual jurisdictions both in the United States and abroad. Many of the requirements of its Uniform Plumbing Code (UPC®) protect the health and safety of half the people in the world.

Plumbing systems are only as safe and efficient as the products that they are made of and the people installing them. Standards of practice, such as the newly adopted SNI 8153:2015, Plumbing Systems for Buildings — many of whose requirements are based on the UPC — help mitigate risk and assure safe, healthy drinking water and sanitation.

PT IAPMO Group Indonesia offers testing and certification services for manufacturers of plumbing products at our new, state-of-the-art facility in Bekasi, Jawa Barat. Recognized the world over for its testing and certification knowledge and experience, IAPMO fully understands the importance of the value of quality, timeliness and customer needs.

Assurance • Confidence • Progressive

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