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 additionally of seven different business units, The IAPMO Group is truly the one-stop shop for all plumbing and mechanical code and product compliance.

The IAPMO Group’s future is equally bright with the commitment to grow core competencies within the code development and product certification arenas. As new products are brought onto the market, IAPMO continues to expand the capabilities of its testing lab to anticipate client needs. By maintaining this leadership position, IAPMO supports research on new and emerging plumbing technologies. As many of the new products and systems are designed with increased sustainability within the built environment, these changes require the codification of plumbing and mechanical system design. With this, the cycle comes full circle: IAPMO’s focused commitment to safe, innovative plumbing and mechanical systems.
The International Association of Plumbing and Mechanical Officials (IAPMO) coordinates the development and adaptation of plumbing and mechanical codes to meet the specific needs of individual jurisdictions both in the U.S. and abroad. IAPMO develops and publishes the Uniform Plumbing Code® (UPC); Uniform Mechanical Code® (UMC); Uniform Swimming Pool, Spa and Hot Tub Code; and the Uniform Solar Energy Code. In support of these publications, IAPMO works with governmental jurisdictions, professional plumbing contractors, labor force, and manufacturers to produce product standards, technical manuals, personnel certification, educational programs and additional resource publications to meet the ever-evolving demands of the industry, as well as the health and safety needs of the public.

As the most widely recognized code of practice in the world used by our industry and the world’s only plumbing and mechanical code designated as American National Standards by ANSI (American National Standards Institute), today’s UPC and UMC are routinely cited as versatile and easy-to-apply documents that can be tailored to fit almost any regional, state or nation’s needs for ensuring drinking water safety and sanitary waste disposal, as well as sound heating, ventilating and air conditioning systems. Equipped with the Uniform Codes, IAPMO has facilitated code development for countries as diverse as China, India, Vietnam, Indonesia and the United Arab Emirates.

What is a “Code”?
A code is a compilation of requirements based on a stated scope and is intended for adoption as primary law by a governmental unit to address an area of regulatory focus: in the International Association of Plumbing and Mechanical Officials case, the plumbing and mechanical industries.

In the development of a code, reliance and dependence can be placed on a standard to address a specialized aspect of the construction industry or practice. The benefit of being ANSI-accredited is that the process involves all users of the code in all industry sectors — the process is open to everyone. Codes have their own uniquely effective and mutually interactive roles in attaining public health and safety.
Public and National Participation Benefits:
Our true consensus, accredited by ANSI, process seeks to ensure that there is an opportunity for all those who are interested in and affected by a code and standard to participate in its development and ensures that an opportunity exists for the voices of all stakeholders to be heard.

Market Recognition:
The ANSI designation indicates that a code and standard reflects current technology, is responsive to market demand and contributes to the effective and efficient operation of commerce within a free market environment.

Tool for Government:
The reliance on voluntary consensus codes and standards is intended to help make the government operate more efficiently, reduce regulatory compliance and procurement costs, avoid the duplication of effort caused by having separate private sector and government-unique solutions, enable the government to take advantage of private sector technology and expertise in establishing standards that serve national needs, and contribute to economic prosperity and growth.

For more information on IAPMO’s Code Development process, contact Lynne Simnick, director of Code Development, at (909) 472-4110 or at lynne.simnick@iapmo.org.
Code Advocacy
IAPMO’s code support is more than just a voice on the telephone. It is the result of years of dedicated experience in helping jurisdictions put in place codes that protect the health of their population. IAPMO Code Support is with you every step of the way, including:

- Expert testimony during code adoption hearings
- Assisting in the education of regulators during the implementation process
- Providing free answers and analysis to Code questions

Most regional field service representatives and IAPMO Support staff are either licensed plumbers or come directly from the code enforcement industry. With their experience, you’re assured of receiving exactly the assistance you require for putting into place the model codes that best fit your jurisdiction’s needs.

Formal Code Interpretations
For verbal clarification, you may call and speak with our code representative at (800) 201-0335. IAPMO offers written clarification through an informal (answers and analysis form) or formal interpretation of ANSI codes (UPC and UMC). You may submit your question online by visiting our Website.

Technical Education Support:
Essentials, Application, Focus, Update, Professional Levels
IAPMO offers a variety of Plumbing and Mechanical code courses designed to meet the training needs of today’s industry professionals. From code enforcement professionals to contractors and designers, IAPMO provides engaging and practical courses taught by experienced instructors who will help you become a better code professional.

Our instructors, who have decades of hands-on experience in their areas of expertise, serve as a great resource for facilitating discussions on current issues, problem installations and enforcement—always providing solutions in practical terms.

Turn to IAPMO for training that is cost effective, interactive and presents the most up-to-date information.

Educational Tools include Illustrated Training Manuals that are based on the most current Uniform Codes. These publications are both a primer for novices and a reference manual for experienced journeymen and inspectors. They contain hundreds of charts and illustrations (in color), a plumbing dictionary and a checklist for inspectors.

Local chapter resources
Your regional field service representatives assists with coordinating chapter formation and ongoing chapter activities. The regional field service representative is also an excellent local resource to refer inquiries to the appropriate staff person for additional information on specific programs and services.
Field Representative contact information:

**Dwight Perkins**  
States Represented: Alaska, Arizona, California, Hawaii, Nevada, Oregon  
503-982-1193  
dwight.perkins@iapmo.org

**Pete Crow**  
360-628-9434  
pete.crow@iapmo.org

**Matthew Marciniak**  
States Represented: Illinois, Indiana, Minnesota, North Dakota, South Dakota, Wisconsin  
414-329-4244  
matthew.marciniak@iapmo.org

**Bill Schweitzer**  
States Represented: Iowa, Kansas, Missouri, Nebraska  
785-986-6623  
bill.schweitzer@iapmo.org

**Sean Cleary**  
States Represented: Michigan, New York, New Jersey, Ohio, Pennsylvania,  
570-341-0370  
sean.cleary@iapmo.org

**Gordon MacEwan**  
States Represented: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont  
781-834-8900  
gordon.macewan@iapmo.org

**Ron Lord**  
States Represented: Delaware, Maryland, North Carolina, South Carolina, West Virginia, Virginia, Washington D.C.  
720-216-2066  
ron.lord@iapmo.org

**Bob Carpenter**  
States Represented: Alabama, Florida, Georgia, Kentucky, Tennessee  
678-380-8488  
bob.carpenter@iapmo.org

**John Mata**  
States Represented: Arkansas, Louisiana, Mississippi, New Mexico, Oklahoma, Texas  
281-856-2029  
john.mata@iapmo.org

**Marylyn Stapleton**  
 Territory Represented: Caribbean  
340-775-9443  
marylyn.stapleton@iapmo.org
IAPMO R&T is North America’s premier plumbing and mechanical product certification agency adhering to established international codes and standards. We are accredited by American National Standards Institute (ANSI) and Standards Council of Canada (SCC).

IAPMO R&T has reduced completion time of product certification to fewer than two weeks and, in some cases, as quickly as 24 hours.

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

Recognizing the growing importance of water conservation, IAPMO R&T provides certification for the U.S. Environmental Protection Agency WaterSense program. And in response to client demands, recently added two new services that include certification to other codes (e.g. International Plumbing Code) and the “two-in-one” certification for plastic pipes and fittings (NSF/ANSI 14 & equivalent ASTM standards).

IAPMO R&T offers everything a product manufacturer looks for in a product certification body: speed, experience, attentive customer service and a resulting listing that delivers exactly as advertised.

**We’re Fast**

The building product market moves at lightning speed and nobody understands this better than IAPMO R&T. As your partner, we’ll help you win the race for market share — not throw hurdles in your path.

We pride ourselves on the efficiency and responsiveness we can guarantee because our entire certification process occurs under one roof. This enables us to offer clients:

- Fewer than two weeks standard turnaround from application to listing
- Even faster expedited service upon request
- Certification to both U.S. and Canadian standards, saving you time, eliminating redundant testing costs, reducing inspection fees and administrative costs
- Enhanced flexibility in certification — IAPMO R&T’s “paperless” process includes online product certification
- Instant access to review the progress of your application online
We’re Trusted
When IAPMO R&T is called the premier product certification program in North America, it’s not hyperbole — no other certification body’s marks of conformity carry more weight than ours. Since 1936, IAPMO R&T has provided building departments across the United States and Canada a listing of products that have earned the right to bear its marks. What does this mean for you?

❖ Unparalleled experience in product certification
❖ The most reputable testing facilities, executing procedures specifically refined to meet the exact needs of each client
❖ Certification by a name recognized worldwide as the leader in its field
❖ Proactive, friendly customer service
❖ A listing that doesn’t just meet a requirement — it adds value

Let us do the work
Complete the application and your work is done — we’ll take it from there. IAPMO R&T is in full control of every step in the certification process.

❖ Product testing at laboratories recognized to the requirements of ISO/IGC 17025
❖ Test reports reviewed by qualified engineers covering every necessary discipline
❖ Review of drawings and supporting documentation
❖ Review of manufacturer’s Quality Assurance system for compliance
❖ Expert review by committee on U.S. and Canadian Plumbing Codes for compliance to these codes
❖ Continuous compliance reviews performed at the manufacturing site

We can even help establish or refine your Quality Management system through our own ISO 9001-2008 department.

Accepted Everywhere
In order to bear the IAPMO R&T shield, your product must meet every rigorous requirement set forth by the corresponding codes and standards. Therefore, consumers and contractors in North America alike seek out the IAPMO R&T marks of conformity — an imprint that says: “No further questions.”

These marks of conformity give the Authority Having Jurisdiction complete confidence that products used in their jurisdictions meet all applicable codes and standards in the United States, as well as Canada.

NSF/ANSI 14  NSF/ANSI 61  NSF/ANSI 42  NSF/ANSI 53
The IAPMO Standards Department represents IAPMO in many standards-writing organizations throughout North America. These organizations include the American National Standards Institute (ANSI), the American Society for Testing and Materials (ASTM), the American Society of Mechanical Engineers (ASME), the American Society of Sanitary Engineering (ASSE), the Canadian Standards Association (CSA) and the Recreational Vehicle Industry Association (RVIA). The IAPMO Standards Department is also involved in its own standards work. IAPMO publishes more than 200 current standards. These standards have been developed through IAPMO’s standards development process. Many of IAPMO standards have been developed into nationally recognized consensus standards in conjunction with organizations such as ANSI, ASME, ASSE, and ASTM. The IAPMO Standards Department is also an ANSI-accredited Standard Development Organization (SDO), which develops and publishes IAPMO/ANSI consensus standards such as the Z124 documents for plastic plumbing products and the Z1000 series documents for waste disposal products.

IAPMO Guide Criteria
The IAPMO Standards Department works with industry to provide an opportunity for the development of new standards when no applicable standard exists for a product. Often, new products or technologies surge ahead far faster than many standards can keep pace. Through the IAPMO Guide Criteria (IGC) procedure, IAPMO provides manufacturers and product developers an opportunity to draft IAPMO standards as a vehicle for introducing new products. Once an IGC is accepted, IAPMO R&T can list products manufactured in compliance with the new requirements.

IAPMO Standards Review Committee
The IAPMO Standards Review Committee meets monthly to review all proposed new standards and standards changes submitted to IAPMO. These meetings are open to members of industry and the public at large. All sides have the opportunity to present their views and supporting information on the proposals discussed at these meetings.
Proposals voted on by the Standards Review Committee are posted for 20 days on the IAPMO Standards Development Program 20 Day Public Review Website (www.iapmostandards.org/Pages/20DayPublicReview.aspx) for public comment.

**Plumbing and Mechanical Product Standards**

For more than 30 years, IAPMO’s standards-developing efforts have primarily focused on plumbing product standards. This concentration was mainly because IAPMO members possessed a great degree of expertise from more than 50 years of writing and updating the Uniform Plumbing Code. Recently, IAPMO’s efforts have broadened to include standards for mechanical products as well. Drawing on their years of experience, many IAPMO members have also contributed to the development of the Uniform Mechanical Code. Mechanical product standards cover heating, ventilation, cooling and refrigeration system products. IAPMO also publishes standards covering products used in the Recreational Vehicle and Manufactured Housing Industry called IAPMO Trailer Standards (TS). With the help of industry, IAPMO also writes and revises installation standards, which are guidelines for proper installation of plumbing products.

**Revising or Developing IAPMO Standards**

Proposals may be submitted to IAPMO’s Standards Department for revisions to existing IAPMO Standards or to develop new standards if no applicable standard exists for a product. Applications and fee schedules are available at www.iapmostandards.org/Pages/Downloads.aspx. Proposals and Applications must be submitted before the 26th of the month and will be reviewed by the Standards Review Committee (SRC) at the following monthly meeting.
IAPMO R&T Lab is a nationally recognized independent third party testing laboratory. Our in-house laboratory engineers and technicians are well versed in all types of testing procedures. Whether it is mechanical, chemical, pneumatic, electrical, automation or machining, our equipment specialists are experts at building and modifying test equipment to meet special needs. The IAPMO R&T Lab testing equipment is ready for round-the-clock testing without interruption.

Our technical services include:

- **Product Testing** – We test to recognized standards such as AHAM, ANSI, ASME, ASSE, ASTM, AWWA, CISPI, CSA, EPA Specification, IAPMO (PS, TS, and IGC), ISO, MSS, NSF/ANSI 14, NSF/ANSI 61, NSPI, UL, SAE and others. Products tested to these standards are generally for listing and certification purposes.

- **Quality Assurance Testing/Evaluation** – This type of testing is usually conducted at the request of a manufacturer, supplier or purchaser who wishes to ensure that models being produced or received are in compliance with the current standards, manufacturer’s or purchaser’s own specification. On-site visits of manufacturing locations are also available to assist manufacturers with their in-house quality control system.

- **Pre-testing Evaluation, Research/Development, and Prototype Testing** – Testing of prototype units for compliance to standards can be costly. At IAPMO R&T Lab, we offer a pre-evaluation service that includes evaluation of a product to the Uniform Plumbing Code as well as to the applicable test standard. The evaluation may include research and development testing to assist manufacturers in bringing the product into compliance with standards and codes. This prototype testing can help ensure that production models will also comply with the applicable standards. Pre-testing and evaluation can also help ensure that products from overseas will comply with our standards.

- **Failure Analysis Testing** – We can test products to the maximum limit to determine a point of failure and generate an evaluation to determine the reasons or cause of the failure.

- **Independent Witness Testing** – Our engineers visit the manufacturer’s facility or on-site location to test and evaluate products.

- **Liaison Services** – IAPMO R&T Lab acts as a liaison between manufacturers and listing agencies. This may include assisting manufacturers with the preparation of submittal packages, typing applications, and delivery of product and applications to various agencies as well as follow-up with the various agencies until certification/listing is granted.

- **Test Kit Services** – Complete and partial test kits for water closets and urinals are available.
There is no substitute for experience. Our staff includes Professional Engineers, Mechanical Engineers, Chemists and Quality Assurance experts. Several staff members came to us from the manufacturing community.

IAPMO R&T Lab is the largest third-party testing facility in North America for plumbing related products.

The lab has the available resources to test most plumbing products available in the market today.

The lab meets ISO Guide 17025 and is accredited by several organizations including the IAPMO R&T INC, National Voluntary Laboratory Accreditation Program (NVLAP), International Accreditation Services, Inc. (IAS), the U.S. Department of Housing and Urban Development (HUD), the U.S. Department of Energy, American Society of Sanitary Engineering (ASSE), and several others.

IAPMO R&T Lab is fast and responsive, offering expedited testing if needed.

Testing Available

- **Plumbing Fixtures Testing** — IAPMO R&T Lab is committed to accurately testing a wide variety of plumbing fixtures to a wide variety of standards. We have more than 25 years personal experience in evaluating and testing your sanitary wares, such as faucets, fittings, spas, whirlpool bathtubs, shower systems, water closets, urinals, lavatories, kitchen sinks/laundry sinks, wash fountains, drinking fountains and bidets.

- **Plumbing Fittings and Specialty Testing** — We have unmatched experience in evaluating and testing your plumbing fittings such as kitchen faucets, lavatory faucets, tub/shower faucets, bidet faucets, showerheads, waste fittings, drains, pipe and fittings for potable water (PVC, CPVC, PEX, copper, brass, stainless steel), valves, DWV and sewer pipe, fittings and connectors, temperature compensating devices, water pressure reducing valves, hot water dispensers, hot water circulation devices, pressurized flushing devices, safety shut-off valves, and various water connections.

- **Material Testing** — IAPMO R&T Lab is here to provide support for all your NSF/ANSI 61 needs including Research & Development, Product Listing/Certification and Quality Control. NSF/ANSI Standard 61 covers indirect additive and materials, including process media, protective materials, joining and sealing materials, pipes and related products, mechanical devices and mechanical plumbing devices. NSF/ANSI Standard 61 addresses the crucial aspect of drinking water system components; whether contaminants may migrate from the product/material into the drinking water and if so are the concentrations above acceptable levels in the finished water. Obtaining NSF/ANSI certification is critical for any company selling drinking water products/components within the United States and Canada.

- **Witness & Field Testing** — Witness Testing is a smart, cost-effective alternative to shipping large or bulky items to a test lab. An IAPMO R&T Lab engineer will come directly to your facility to observe and evaluate testing performed by your personnel, utilizing your equipment and test set-up for your standard of choice. For manufacturers with a product that cannot be shipped to our lab and must be tested on site, we also offer Field Testing services. An IAPMO R&T Lab engineer will visit the designated site and perform testing to all applicable standard(s). All data collected is used to generate a formal IAPMO R&T Lab test report, which can be sent to any accredited agency for product listing and certification.

- **Plastic Pipe Testing** — This battery of tests evaluates the integrity of raw materials used in the extrusion or injection molding of plastic pipes and fittings. The tests evaluate the plastic resin against the appropriate ASTM standards.

- **Quality Assurance Testing/Evaluation** — A quality control program consultation is an added benefit for the client and is what separates IAPMO R&T Lab from our competitors. This consultation includes assisting manufacturers in creating and managing their program.

- **Electrical Testing** — Responding to the growing number of plumbing products featuring consumer friendly electrical amenities, IAPMO R&T Lab opened its Electrical Laboratory in late 2008. Featuring separate spaces for both wet and dry testing, the lab can evaluate products ranging from electronic faucets and toilet seats to hydro-massage hot tubs with built in LCD televisions.

For more information on this, contact us at (909) 472-4134 or at info@iapmortl.org.
Why ISO 9001 Certification?
Implementing the ISO 9001 standard at your business provides a tried and tested framework for a systematic approach to managing your organization’s processes. This standard represents the best tools and practices available to insure customer expectations are consistently met or exceeded.

Likewise, obtaining an ISO 9001 certificate from an independent certification body such as IAPMO R&T is the best way to communicate to your clients that your business is operated upon the highest standards. It is a mark of credibility to a prospective client that says, “We are first in fast ISO 9001 registration.”

Other benefits include:
- **Continuous improvement**: ISO 9001 is designed to monitor process performance and initiate improvements whenever necessary.
- **Verifying practice vs. process**: Insures that the processes laid out are being strictly followed in their actual implementation, minimizing costs and maximizing productivity through improved staff responsibility, commitment and motivation.
- **Objective third-party validation**: Eliminates the need for multiple audits performed on a client-by client basis and boosts competitive edge by providing external acknowledgement of quality management.
- **Benchmarks**: Establishes specific industry goals that measure process maturity and compliance, building a stronger reputation in the eyes of stakeholders through a commitment to doing things right.
Why IAPMO R&T?
IAPMO R&T is your best choice as a third-party objective certification body because extensive experience in auditing hundreds of manufacturing sites for product listings has taught us that efficiency and consistency are the most important factors to your bottom line. To that end, we firmly believe achieving ISO 9001 certification does not need to be a long, drawn-out task. We’ll deliver to you the benefits of ISO 9001 certification sooner than other services, with unmatched flexibility to meet your needs, and backed by the trust of IAPMO’s 80-plus years of experience. IAPMO R&T ISO Registration is accredited by ANAB in accordance with ISO/IEC 17021.

Certification/registration costs are tax deductible.

OHSAS 18001
IAPMO R&T is also able to assist you in achieving OHSAS 18001 certification of compliance. Nothing at your workplace is more important than the health and safety of your workers. Getting OHSAS 18001 certified is the best way to reduce risk and eliminate hazards. And IAPMO R&T is the best way to get certified.

Get Trained
Interested in ISO training? IAPMO R&T offers various training programs in ISO 9001 and its quality management tools. You’ll learn about structuring a documentation system, conducting management reviews and building audit capabilities from experienced instructors with strong knowledge of the quality assurance field.

Additional Services:
- AS9100 – Aerospace (AS) Quality Management System
- ISO 14001 – Environmental Management System (EMS)
- ISO 22000 – Food Safety Management System (FSMS)
- ISO 13485 – Medical Devices Quality Management System
Built on the reputation of the foremost source of uniform codes and standards in the building and construction field, IAPMO Evaluation Service (ES) is the agency of choice for building officials everywhere.

Offering lower prices and faster, more flexible service than other providers, IAPMO ES is the smart option for your company’s evaluation needs. Evaluation reports generated for building products, materials and designs are trusted by contractors, inspectors, officials, and Authorities Having Jurisdiction.

IAPMO ES is accredited by the American National Standards Institute (ANSI). This gives inspectors and other officials the confidence of knowing that all products evaluated by IAPMO ES have met the minimum requirements of applicable codes and standards.

- IAPMO ES is a product evaluation agency for building products
- IAPMO ES is responsive and competitively priced for the building manufacturer
- Our program has integrity in that it is built upon 80 years of experience and the qualification and competence of our technical staff.
- Our customer service representatives work with the manufacturers to exceed their product evaluation needs and expectations.

Accelerate Launch Schedule

- IAPMO Evaluation Service Report Completed early
- Evaluation Reports readily accepted by all municipalites

(Reference IBC 1703)
IAPMO Backflow Prevention Institute® (BPI) provides education and training services to increase both private and professional awareness of potential hazards to the public drinking supply relating to backflow and cross connections.

Backflow prevention programs are in place to protect the public health from intentional and unintentional contamination of the public’s potable water supply. Backflow is a flow reversal in a piping system. Normally, water flows from a water main in the street to a service connection. A serious health risk to the community occurs when there is any return from a customer’s plumbing system.

Imagine several people sharing a beverage through the same straw. One person who has an infectious disease drinks from the straw and the entire group may become ill. The plumbing industry refers to a connection where contaminants are introduced as a cross connection. Although plumbing systems, once installed, provide protection from cross connections, property owners may inadvertently modify the plumbing and allow hazardous cross connections to exist.

For example, a simple garden hose chemical sprayer or a hose connection to another source of water for irrigation can create a potentially hazardous situation. A water supply industry practice is to install a backflow preventer on a customer’s service line in order to protect the public distribution system. Because these health and safety valves are mechanical devices, they must be tested periodically to insure their integrity.

In addition, all of the national model plumbing codes require backflow preventers at points of use in a plumbing system where contaminants may enter the plumbing system and endanger the occupants of the building. The plumbing industry has demonstrated consensus that these valves are vital to protecting the owner and the public’s general health and welfare.

**Publications**

**Backflow Prevention Manual**

IAPMO and IAPMO DW&BP developed the first edition of this manual jointly with the Plumbing-Heating-Cooling Contractors National Association (PHCC). This collaborative effort resulted in the first-of-its-kind manual for the industry, which contains concepts and lessons that boast international relevance. The unique, 300-page publication contains full-color illustrations in real-world field settings, and is a truly comprehensive book on the subject of backflow prevention. The manual contains sections relating to installation, testing, cross-connection control, repair and inspections, and can also be used as a textbook for these areas. Additionally, the Backflow Prevention Reference Manual can be used by regulatory agencies as a guide to determine what type of valve can be used in a particular case. With information on the history of backflow prevention as well as chapters written from the regulatory perspective, the Backflow Prevention Reference Manual is an important resource for system designers, urban planners and utility companies – professionals “on both sides of the water meter.”

**Backflow Prevention Test Procedures**

IAPMO DW&BP developed this 92-page manual as a companion to the Backflow Prevention Manual. Today, nearly all of the widely accepted field test procedures test check valves by measuring a direction of flow differential pressure. The exception is the second check of a reduced pressure principle assembly procedure that artificially produces a slight backpressure, which pushes the second check disc onto its seat. The field test procedures contained in the Backflow Prevention Reference Manual were designed to present the
tester with accurate results that were not influenced by external hydraulic factors. This comprehensive guide shows in full color graphics the correct procedures as set for by ASSE, the U.S. Environmental Protection Agency and Southern California / ABPA to test backflow prevention devices. This book is part of the curriculum of the UA's course on backflow prevention.

BPI publishes the leading monthly backflow prevention magazine, Drinking Water and Backflow Prevention, devoted to every aspect of Backflow Prevention. Articles provide information, introduce products and assist in the awareness of the potential hazards associated with the quality of the drinking water supply. The motto of the IAPMO Drinking Water and Backflow Prevention program is “Dedicated to Water System Safety Worldwide.”

Because of DW&BP’s emphasis on reporting industry news, articles frequently include the activities of numerous professional associations, such as the American Water Works Association (AWWA), American Society of Sanitary Engineering (ASSE), International Association of Plumbing and Mechanical Officials (IAPMO), International Code Council (ICC), Canadian Standards Association (CSA), Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California, American Backflow Prevention Association (ABPA) and more.

DW&BP strives for total industry coverage and awareness in every issue and has the resources to expand coverage and market the magazine nationwide. Monthly features include coverage of all the interest in inspection and enforcement, plumbing, water, utility, irrigation and fire components of the industry. Water system safety is not an issue limited to North America. IAPMO has already established backflow prevention relationships in the Philippines, India, China and Australia.

**Education and Training**

BPI is proud to offer classes for any of the following certifications: Association of Boards of Certification (ABC), code-compliant certifications from the American Society of Sanitary Engineering (ASSE), American Backflow Prevention Association, Canadian Standards Association (CSA) and any exam offered nationally and internationally. BPI also offers multiple backflow preventer technician repair and administrative certification exams.

These courses include backflow prevention assembly tester, repaire and cross-connection control surveyor. Each of these courses includes a certification exam through the American Society of Sanitary Engineering. The ASSE publishes ANSI-recognized Professional Qualification Standards (ASSE Series 5000) and ASSE offers a certification to those standards that is recognized by the model plumbing codes in the United States, including the Uniform Plumbing Code® and International Plumbing Code. IAPMO is dedicated to water system safety through plumbing-code compliance and supports the ASSE program.

The tester initial certification and re-certification training classes are held at Red Rocks Community College in Lakewood, Colo. IAPMO can also provide training at off-campus locations.

If your company or organization has a minimum of 12 students, please contact Sol Alba at (708) 995-3000 and we can schedule your own backflow prevention class.

If you have any questions regarding the plumbing requirements or the operation of these safety devices, do not hesitate to contact the Backflow Prevention Institute at (303) 451-0978 or visit www.iapmodwbp.org.

For registration, please mail your application and supporting documents to:

**IAPMO Backflow Prevention Certification Training**

18927 Hickory Creek Drive, Mokena, IL 60448 or fax the application and supporting documents to: (708) 479-6023

If you have any questions regarding this program, please call 1-877-IAPMO-01, Ext. 3000 (1-877-427-6601, Ext. 3000).

To subscribe to Drinking Water & Backflow Prevention magazine, call (888) FOR-DWBP — (888) 367-3927 — or to advertise, call (703) 934-0115.
Based in Melbourne, Australia, IAPMO R&T Oceana is accredited by the Joint Accreditation System of Australia and New Zealand (JAS-ANZ). We operate an effective quality system in accordance with ISO/IEC Guide 65 general requirements for bodies operating product certification systems and are also backed by IAPMO R&T’s extensive experience in certifying our industries’ products since 1936.

IAPMO R&T Oceana professional staff have many years experience in the product certification field and can expertly and efficiently assist manufacturers and importers of plumbing and drainage products, achieve certification within a minimum time frame and at very competitive rates.

WaterMark™

WaterMark™ is a certification trademark and used in relation to water supply, sewerage, plumbing and drainage goods. The plumbing industry in Australia supports the use of the WaterMark™ which, when used properly, is an excellent way of helping Australian consumers be confident about the quality of the plumbing product to which it is applied. The WaterMark™ is applicable to products manufactured both locally and overseas.

The Plumbing Code of Australia (PCA) specifies that a material or product that has the WaterMark certification mark and is listed on the WaterMark product database is recognized by authorities having jurisdiction as being authorized for use in a plumbing or drainage installation.

As a JAS-ANZ accredited product certification body, IAPMO R&T Oceana can certify plumbing and drainage products in accordance with the relevant product Standard and ISO/IEC Guide 65 permitting manufacturers to mark their certified product with the WaterMark logo.

The WaterMark Scheme ensures the plumbing and drainage materials and products are fit for purpose and that their use in a plumbing or drainage installation is sustainable and does not create significant risks or any likely outcome of:

a) personal illness, loss, injury or death;
b) environmental degradation;
c) contamination of the water resource;
d) adverse impact on infrastructure (Private and Public);
e) contamination of the water supply;
**OceanaMark™**

OceanaMark™ is a product certification scheme used in relation to the safety and performance requirements of product not specifically covered under an industry based regulatory regime. New components or appliances wishing to bear the OceanaMark™ of conformity must meet the requirements of the standards as referenced at www.iapmooceana.org > OceanaMarks Standards list or as defined by IAPMO R&T Oceana.

Those meeting the standard are granted a non-transferable, non-exclusive certificate to use the OceanaMark™ as a certification trademark in Australia and New Zealand. Once earned and affixed to your certified product, the OceanaMark™ becomes an instantly recognisable symbol, providing your clients and the public with a high degree of assurance, that the certified product is of high quality and fit for the purpose as defined by the certification standard.

**GasMark™**

The GasMark™ certification scheme is for the certification of ‘Type A’ gas appliances (inputs up to 500MJ/h) and gas components covered under the scope of specific standards and gas regulatory authority requirements.

The certification scheme and the products under the scheme are overseen by Australian and New Zealand gas regulatory authorities. These authorities have specific State and Territory regulations requiring these products not be marketed or installed in Australia and New Zealand unless certified under a scheme recognised by the appropriate gas regulatory authority.

Products bearing the readily identified conformity mark “GasMark™” provide our clients and the public with a high degree of assurance, that the product is a quality product and fit for the purpose as defined by the certification Standard.

For more information regarding the services of IAPMO Oceana, please contact **Glenn Tate** at (+61) 03 8684 9580 or at glenn.tate@iapmooceana.org

In addition, more information on IAPMO Oceana including the “Governance Rules” and application form along with further information on GasMark, OceanaMark and WaterMark is available from our website: www.iapmooceana.org
The International Association of Plumbing and Mechanical Officials (IAPMO) has a strong cooperative presence in the nation of India and has partnered with the Indian Plumbing Association (IPA) to develop a Uniform Plumbing Code for the nation.

In 2007, the Government of India approved the establishment of IAPMO Plumbing Codes and Standards India Private Limited, also known as IAPMO-India with its head office at Bengaluru, India. IAPMO and the IPA, both members of the World Plumbing Council (WPC), agreed upon a comprehensive plan to work together and established a model code of plumbing installation and maintenance for India known as, the Uniform Plumbing Code – India (UPC-I). The IPA Code Committee worked with IAPMO staff in creating a document that recognizes and utilizes proven international concepts, always taking into consideration the proven plumbing practices and customs within India.

### Uniform Plumbing Code – India

Codes of practice that attempt to minimize risk by specifying technical standards of design, materials, workmanship and maintenance for plumbing systems. The main aims of the code are:

- To ensure that planners, administrators and plumbers develop the required competency to ensure that the codes are applied and upheld
- That standards are set to ensure that plumbing assemblies, materials and technologies are safe and effective
- To ensure that plumbing installations meet these standards
- To ensure safety and effectiveness continuously through the proper maintenance of these installations

### UPC-I Illustrated Training Manual

The ITM is a comprehensive guide for plumbing professionals. The courses covered under PEEP program, proposed to be taught by the IPA/IIP/Education Institutes of India follow this easy-to-understand training manual.

### IAPMO-India Plumbing Education Department

This department at Pune, India is integral in assisting IAPMO-India, in cooperation with the Indian Plumbing Association (IPA) and the Indian Institute of Plumbing (IIP), in successful implementation of a strategic, complex and aggressive Plumbing Education–to–Employment Program (PEEP) that is intended to prepare multiple levels of plumbing workforce groups in India to read, understand, interpret, engage and apply the provisions of India’s Uniform Plumbing Code to initial installations and continued maintenance of plumbing systems.

The initiative encompasses a two-semester part-time preparation program for engineers, another two-semester part time preparation program for contractors/managers/supervisors, and 1 year –2 years program for apprentice plumbers and master plumbers respectively IPA’s Plumbing Education Committee (PEC). A committee of plumbing experts in India is vital to the success of these programs and to the overall success of PEEP. IAPMO’s Director of Career Services is responsible for and oversees all operations of the IAPMO-India education department.
The IP A-IIP-IAPMO-I’s Plumbing Education to Employment Program will be introduced all over India by May 2009 by partnering reputed and established Education Institutes.

**Product Certification**
IAPMO R&T is North America’s premier plumbing and mechanical product certification agency. It is ANSI-accredited to ISO/IEC Guide 65 and offers conformity assessment, quality assurance and continuous compliance programs.

IAPMO R&T’s staff in Bengaluru, India can provide local manufacturers with product certification services to the North American codes and standards. We’ve reduced completion time of third-party listing NSF/ANSI 61 certification reports to fewer than three weeks and, in some cases, as quickly as 24 hours by offering flexible, local resources at IAPMO R&T-recognized laboratories.

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

The IAPMO Group’s presence in India is the result of a booming economy currently growing at rate of 8-10 percent annually and evidence of its ability to offer its services on a global scale.

**International Membership**
IAPMO International membership delivers IAPMO products and services to the International Code Community Via the internet
- Available to individuals
- Residing outside of the 50 United States and Canada
- With high-speed (broadband) internet access

**Benefits of IAPMO International membership**
- FREE Code download
- 20% Member discounted pricing on all IAPMO internet products and services
- OFFICIAL magazine delivered via internet
- I-Connection and Green e-newsletters
- Renewal notices delivered via email

**IAPMO-Green International Membership**
IAPMO-India plans to launch IAPMO-Green membership within & outside India with a clear goal of bringing in awareness amongst the fellow Green members/citizens towards eco-consciousness, global warming, Climate change, self sufficiency, savings in use of Energy and Water, managing waste responsibly. And educate Green-members on mainstream sustainability.
MEMBER SERVICES

Membership in IAPMO is open to plumbing and mechanical inspectors, engineers, building officials, plumbing and mechanical contractors, manufacturers of plumbing, mechanical and building products, retirees, and anyone else who has an interest in promoting safe and efficient plumbing and mechanical systems. IAPMO members hail from more than 40 U.S. states and from many foreign countries including Canada, Germany, India, United Arab Emirates, China, Costa Rica, Scotland, Japan, New Zealand, Mexico, Philippines, Indonesia and Saudi Arabia.

IAPMO is dedicated to the professional development and career potential of individuals in the profession of code administration. The last decade has seen this profession take hold and gain momentum. Code administration has finally emerged as a bona fide profession. IAPMO offers a collection of cost effective resources that endeavor to meet the growing professional development needs of code professionals and aim to assist jurisdictions with serving the code professionals on their staffs.

Practical, interactive SEMINARS that are professionally developed and delivered by competent and skilled instructors are available by request or can be attended in public forum. The online learning center offers engaging courses around the clock allowing students to work at their convenience. Job seekers and employers can search the career center for open positions and for qualified candidates to fill them. The certification program offers the means for professionals to demonstrate their technical expertise and gain professional recognition. The certification program also provides jurisdictions a manner in which to identify individuals who possess a comprehensive knowledge of construction codes and standards. The construction trades testing program assists municipalities in identifying individuals who possess the trade knowledge necessary to be licensed to work in their jurisdiction.

Membership has two categories: Government or Individual.

**Government Membership**

Government members are governmental agencies, departments or units engaged in administration, formulation or enforcement of laws, regulations or ordinances relating to public health, safety and welfare. Annual member dues are based on population. This category of member is different from Individual membership in that all employees of the Government Member are eligible to receive member benefits.

As an added benefit, the voting representative of the IAPMO Government member will receive a free UPC and UMC soft cover code as each new edition is published — that’s two free books every three years!*

<table>
<thead>
<tr>
<th>Government Unit Population</th>
<th>Government Membership Dues</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-25,000</td>
<td>$150.00</td>
</tr>
<tr>
<td>25,001-50,000</td>
<td>$200.00</td>
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<tr>
<td>50,001 - 300,000</td>
<td>$250.00</td>
</tr>
<tr>
<td>More than 300,000</td>
<td>$300.00</td>
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</tbody>
</table>

*Membership must be current to qualify.
Individual Membership
Individual Membership is open to any individual who is interested in promoting safe and efficient plumbing and mechanical systems and advancing the purposes of IAPMO.
**Individual Membership Dues:** $75.00

Organization Membership
Organization Membership is open to any national or international association, bookstore, society, educational institution, manufacturer, corporation or company desiring to advance and support the purposes of IAPMO.

With Organization Membership, all employees of the Organization Member are eligible to receive member benefits. Additionally, the voting representative of the Organization Member will receive a free UPC and UMC soft cover code as each new code edition is published.*

**Organization Membership Dues:** $425.00

*Membership must be current to qualify.

Senior Membership
Senior Membership is open to any individual who is 62 years or older and having the desire to advance the purposes of IAPMO.

**Senior Membership Dues:** $15.00

Apprentice/Student Membership
Open to any individual who is enrolled as a full-time student or apprentice in a recognized school or other institute of learning and pursuing a degree or a certificate of competence in engineering, architecture or the mechanical arts. A valid student ID or proof of enrollment is required with application.

**Apprentice/Student Membership Dues:** $25.00

How can I receive a publication discount?
To order publications and get your member discount, visit our online bookstore and log in with your member number — your savings will be automatically applied at checkout. You can also place an order by calling our publications desk at (800) 85-IAPMO. Simply provide your member number to receive your publication discount.

How can I receive an educational seminar discount?
To register for an educational seminar with your member discount, visit our education registration page and log in with your member number — your savings will be automatically applied at checkout. You can also register for seminars by calling our Career Services department at (800) 85-IAPMO. Simply provide your member number to receive your seminar registration discount.

What kind of information can I find in Official magazine?
The award-winning Official magazine features articles of interest to the plumbing and mechanical industries, educational resources, and up-to-date information on industry news and IAPMO events.

How do I receive the I-Connection e-newsletter?
How does this benefit me?
I-Connection is a monthly electronic newsletter that keeps IAPMO members up to date on all the latest in news that affects the plumbing and mechanical industries. Simply provide IAPMO with a valid email address and you’ll begin receiving I-Connection every month. And don’t worry — IAPMO is dedicated to keeping your contact information confidential.

International Membership
This membership is designed for individuals residing outside of the 50 United States and Canada whose access to IAPMO member benefits and services is limited to the internet. International members will receive, upon joining, a free download of a Uniform Code or a one-year subscription to a Uniform code on the IAPMO Portal. International Members also receive OFFICIAL magazine on IAPMO’s Members Only website as well as I-Connections and Green e-newsletters directly to their internet mailbox.

**International Membership Dues:** $50 USD
(Not available to residents of the United States or Canada)

How can I serve on an IAPMO committee?
We encourage you to submit an application for any of our committees by visiting our Website for a downloadable application.