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HOUSTON CHAPTER

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# ASPE Newsletter

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Chartered July 10, 1968

February 2024

Houston, Texas

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## Houston ASPE Board of Directors



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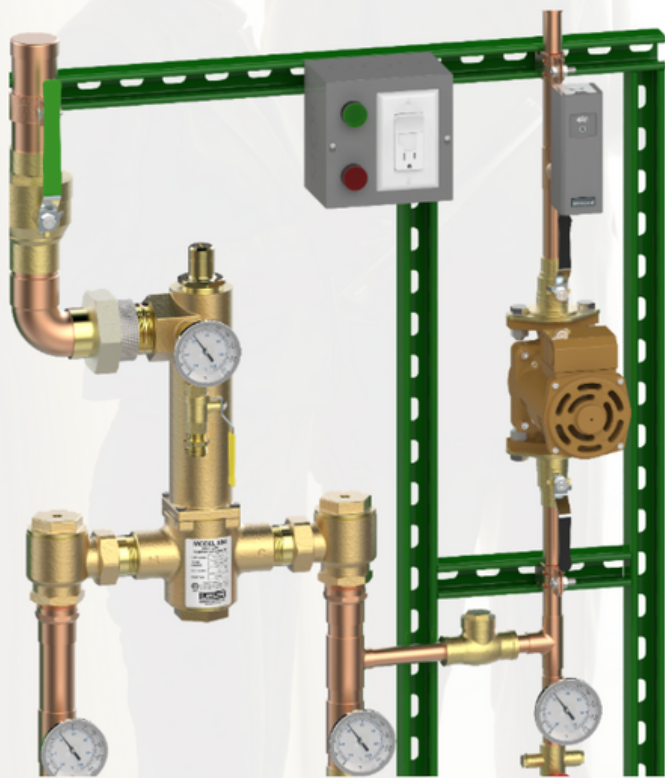
# CASPE

American Society of  
Plumbing Engineers™

## H O U S T O N

*Register  
Now*

### February Technical Luncheon Temperature Control Valves for Hot Water Distribution



**WEDNESDAY FEB 7TH**

- Types of Mixing Valves and Applications
- Mixing Valve Standards
- Design Considerations and Mixing Valve Sizing
- Recirculation - Right vs Wrong

**11:30 AM - 1 PM**

**LAWLER**

LUNCH SPONSOR

**REGISTER TODAY!**



**DUKESSA**  
2840 CHIMNEY ROCK RD, HOUSTON, TX 77056



[WWW.ASPEHOUSTON.COM](http://WWW.ASPEHOUSTON.COM)

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# President

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ASPE Houston Newsletter  
February 2024

Welcome back ASPE Family! We just wrapped up our annual plant tour the year. Many thanks to Billy Turcios for planning this and Victaulic Bermad Technologies for hosting. The meeting was well attended and enjoyed visiting with those present. David Shafir did a great job educating us on their impressive PRV station mock-ups. Not to mention the importance of having the proper valves to provide adequate pressure to your plumbing systems.

Looking ahead in February, we will have our regular scheduled chapter meeting on February 7th At Dukessa. Please refer to Billy's article for all the details of our next meeting. Planning for the 2014 Annual Houston ASPE Chapter Product Show is well underway. Greg Salter and the team are on top of it, all booths should be close to being filled up by now. Contact Greg at 832-202-4032 if you have any questions or if you simply would like to volunteer. As mentioned previously, Donald Taylor has set up dates for his popular CPD Review Course. These courses will be held on March 2nd-3rd with a Mock Exam on March 30th. This will be an online course, registration is now open on our Aspe Houston website. Please log on and view the details, there is a well-detailed syllabus and other helpful information as well. Lastly, the end of February kicks off the start of our popular Houston Livestock Show and Rodeo, YEE-Haw! How about we show some support and wear our finest western wear outfit for our next meeting?

If you have any ideas for future chapter functions or meeting topics, please contact one of the BOD members. As you know we are continuously striving to provide our members with meaningful, educational, and even sometimes-fun Chapter meetings. If anyone is interested in getting involved with any of the events that we have in store for this year, please don't hesitate to reach out to me via email or give me a call. Thank You!

Thank you all for being a part of a great organization. See you soon!

Thanks,  
Jaime Cruz  
President

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# VP Technical

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Dear ASPE Houston Chapter Members,

February 2024,

Welcome back from the holiday break! We hope you had a restful and enjoyable time with your loved ones. As we kick off the new year, we would like to extend our gratitude to all our members for their continued support. We are excited to share the success of our recent plant tour to Victaulic, where members had the opportunity to explore cutting-edge technologies and learn more about industry innovations. A special thanks goes out to Angela Vinson, Zach Arnold, David Shafir, and Trey Bohannon, as well as the entire Victaulic and Bernard Technologies family for being exceptional hosts and making the event a resounding success. Your warmth and hospitality contributed significantly to the positive experience for all attendees. We look forward to more engaging events and fruitful collaborations in the coming year.

We are thrilled to announce that in February, we will be returning to our regular monthly meetings at Dukessa. Our featured speaker will be Mr. Lunn, who will delve into the intriguing topic of "Temperature Control Valves for Hot Water Distribution." Join us for an informative session as we explore advancements in this critical aspect of our industry. Looking forward to your presence at this engaging event!

Meetings are also being posted on our Houston ASPE-Meeting section as we secure speakers for the month. If you are interested in presenting or have a technical topic in mind, please contact me at [theturciosfam@gmail.com](mailto:theturciosfam@gmail.com) or 832-229.7819. Thanks.

Billy Turcios  
VP Technical

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**Welcome new members:** Chris Tubb  
(Mammoth-Solutions)

## Region 5 membership standings:

Chapter	22-Jan	23-Jan	% change
Chicago	269	285	6%
Dallas/Ft. Worth	225	268	19%
Houston	214	231	8%
Wisconsin	121	157	30%
Minnesota	159	148	-7%
Central Texas	120	136	13%
St. Louis	110	129	17%
Kansas City	121	120	-1%
Oklahoma	73	72	-1%
Omaha	75	72	-4%
Arkansas	37	48	30%
Central Illinois	33	30	-9%
Lubbock High Plains	11	9	-18%
Region 5 Total:	1596	1705	7%

**The Houston Chapter Board of Directors appreciates help from each of you for recruiting colleagues and contacts to the ASPE Houston Chapter!**

**Curtis Dady**  
**VP Membership**

## Member Benefit Tips

### **BOOST YOUR INDUSTRY VISIBILITY**

Demonstrate your abilities to lead and boost your industry visibility by volunteering to join your Chapter Board of Directors or apply to join the Society Board of Directors. Employers, clients, and coworkers respect and look up to ASPE Chapter and Society Officers. Without our leaders, we would not have a Society; it's worth the work.

### **SPECIAL-INTEREST GROUPS**

ASPE Young Professionals (AYP) is designed for young industry professionals looking to meet with peers to share experiences, exchange ideas about the plumbing design industry, and network with other Chapter members. The focus of AYP is to help young plumbing engineers, design professionals, and practitioners establish contacts and further the mission of the Society. ASPE members 35 years old and younger are all included in this special-interest group.

The core mission of the Women of ASPE (WOA) is to engage, retain, and advance women in the plumbing design industry, through education, leadership development, and networking opportunities. WOA is committed to bringing together women and assisting them to achieve their professional and personal goals.

### **MEET POTENTIAL CLIENTS/MEMBERS**

If you are an Affiliate member, in sales, who steps up and takes on a membership role, you are in a unique position to promote ASPE and your company. Your leadership role is a valuable way to place yourself in front of prospective clients and members. Talk to your Chapter Board of Directors and see what you can do to promote yourself and ASPE.

# What is ASPE?

The **AMERICAN SOCIETY OF PLUMBING ENGINEERS** (ASPE) is the only organization dedicated to promoting the plumbing engineering profession to both enhance career opportunities for our members and ensure the health, safety, and well-being of the public through the design of safe plumbing, drinking water, and sanitation systems.

## WHAT WE DO



**Provide** continuing professional education programs



**Publish** design manuals, tools, and standards



**Host** conferences, tradeshows, and networking events



**Certify** professionals skilled in plumbing system design



**Promote** safe and sustainable water and sanitation systems



**Represent** the industry in local and national government



**Help** develop safe plumbing and building codes and standards



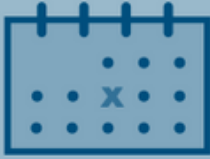
## OUR MEMBERS

Our members are individuals working in various professions related to plumbing system design.

## ← What Is Plumbing Engineering?

Plumbing engineering is a vital part of the design/build construction process. Plumbing engineers use the principles of fluid flow with engineering calculations to design plumbing systems that transport fluids such as water, wastewater, natural gas, and rainwater throughout buildings.

## BY THE NUMBERS



Founded in

**1964**



Number of Members Worldwide

**6,500+**



**13**

Elected Board Positions



**66**

Local Chapters

**20+**

Technical Publications



**2**

Special-Interest Groups for Young Professionals and Women

**3**

Professional Certification Programs



**10**

Staff Members



## INDUSTRY PARTNERS

To achieve our goals, ASPE collaborates with the following organizations:

American Backflow Prevention Association

ARCSA

ASHRAE

ASSE International

Canadian Institute of Plumbing & Heating

CSA Group

IAPMO

International Code Council

National Institute of Building Sciences

NSF International

Plumbing Efficiency Research Coalition

Plumbing Industry Leadership Coalition

Plumbing Manufacturers International

United Association

Water Quality Association

World Plumbing Council

## HOW YOU CAN GET INVOLVED



Our Chapters host monthly meetings, golf outings, tradeshows, seminars, picnics, baseball outings, and more fun networking events to help local professionals connect.

Contact a Chapter

Join Today!

Connect with Us






## ANNUAL PRODUCT SHOW

Wednesday, April 3rd, 2024 | 4:30 to 8:30 P.M.

SAM HOUSTON RACE PARK | 7575 North Sam Houston Parkway | Houston, TX



Food, drinks, parking,  
and admission are included as well  
as many great door prizes!

Starting at 5 P.M.:

- Door Prizes every 30 minutes (while they last)
- Winners will receive text
- **BIG** Grand Prize at 8:30 P.M.

| PREREGISTER TO EXPEDITE ENTRY

For more information contact  
Product Show Chairman: Greg Salter  
at [gsalter@pepcosales.com](mailto:gsalter@pepcosales.com)  
or 832-202-4032

# Victaulic®

## January Factory Tour





## **Message from Brianne Hall, PE, CPD | ASPE VP Legislative | ASSE International Region 8 Director**

NFPA 99-2024 is available and includes the language below referencing ASSE 6060 - Medical Gas Systems Designer. Thank you to those who supported the development of the professional qualification standard, supported the training, the exam development process and supported the inclusion within NFPA 99.

### "5.1.3.3.2 Design and Construction

5.1.3.3.2.1 Medical gas and vacuum systems shall be designed by one of the following:

- (1) A party technically competent and experienced in the field of medical gas and vacuum system design and meeting the requirements of ASSE/IAPMO/ANSI 6060, Professional Qualifications Standard for Medical Gas System Designers
- (2) A party deemed technically competent through other qualification(s) deemed sufficient by the health care facility's governing body"



### **Did You Know ASSE 6060 Will Be Required in NFPA 99?**

In August, the NFPA Standards Council approved the 2024 edition of NFPA 99: Health Care Facilities Code, which includes a new stipulation for medical gas system designers to meet the requirements of ASSE 6060. To help you stay ahead of the curve, ASPE now offers an online medical gas training course in partnership with MedGasCards.com. The self-paced, 32-hour course fulfills the training requirement for ASSE 6060 and also offers 1.2 ASPE CEUs. You can start your training at MedGasCards.com.

## BATTERY REQUIREMENTS

### Catching up with the energy industry



In most vehicle shops, either professional or as part of a high school shop, there is a place where batteries are stored and/or recharged. The most common way to store batteries is by stacking them in vertical racks. The location for these racks has a few requirements to meet from different codes: NFPA, OSHA, Electrical, HVAC, and Plumbing; as well as the Electrical Safety Foundation International (ESFI).



When batteries are stored, they have the possibility of leaking, releasing toxic fumes, setting themselves on fire and even exploding in situations where its storage room with poor ventilation or in a location that is exposed to high temperatures.



To comply with the most common risk “Battery leakage” the Plumbing code requires that a dedicated Acid-resistant floor drain is provided for the storage area which will be discharging into an acid neutralizer before connecting to the building waste system; therefore, piping and joining methods for drainage and vent systems have to be corrosion resistant to the Battery acids and the chemicals that might be used to put out a fire in case one or more battery cells get ignited.

These drainage requirements are covered by the IPC and UPC codes under “Special Wastes”.

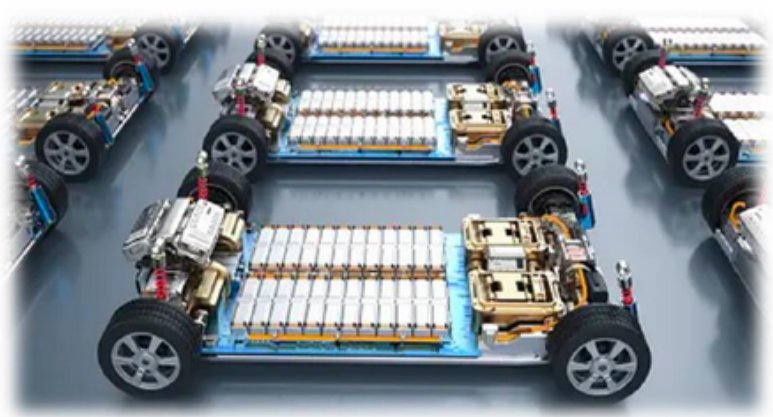
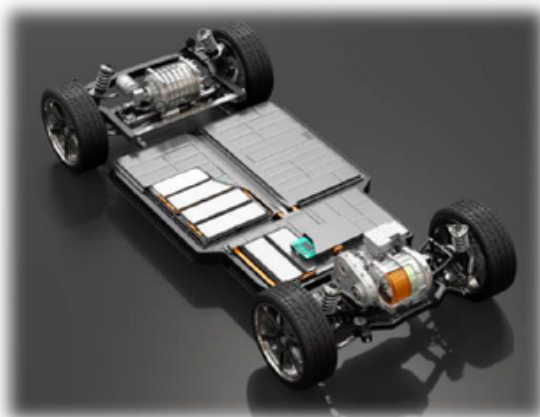
Nowadays Batteries have expanded their range of applications, they are no longer limited to automobile and minor voltage equipment. Its use has become a necessity for the modern robotic industry. Its usage varies tremendously, from medical equipment to warehouse distribution and storage logistics.



The industry in general has set a goal of reducing CO2 emissions by avoiding the use of combustion as a source of energy, instead, they are switching to environmentally friendly energy sources. Because of this trend, the use of batteries is increasing exponentially, and now all the **Autonomous equipment** fully depends on **portable energy**. This creates a need for most type of buildings to have storage for back up batteries. Even some equipment has a dedicated emergency battery energy generator.



The automotive industry is going through its own energy evolution. This change is compatible with the change that the auto industry experienced when the vehicles went from steam propulsion to gasoline...





## The Ugly side

Despite the advances in energy technology, our current solutions for fire protection are not ready for fires created by defective batteries or recharging stations. Mainly due to wrong use or malfunction car batteries will ignite setting themselves on fire. The problem is that if one battery starts burning, the rest of them will catch fire as well.

Currently, firefighters are not

equipped to put out this type of chemical fires that easily; because even when it looks like the fire is finally controlled, another battery soon starts burning to create a very dangerous situation for first responders; therefore, in most situations they let the vehicle to be totally consumed by the fire until it puts itself out.

The acquisition of electric vehicles and the use of e-bikes and e-scooters as a means of alternative transportation for work and recreational activities and not fully following the manufacturer's instructions pose a major fire risk while charging or storing. This issue has created a well-founded fear that a fire caused by a vehicle battery may extend to the neighbor vehicles or properties.



To avoid extensive losses, HOA's (Home Owners Association) are starting to request that these Electric vehicles and charging stations be located outside of the building even if the parking area/space is prepared with a fire protection system.



# CERTIFIED IN PLUMBING DESIGN<sup>SM</sup>

**CERTIFIED IN PLUMBING DESIGN** (CPD), administered by the American Society of Plumbing Engineers (ASPE), is the only international certification program specifically for engineers and designers of plumbing systems. Professionals who have the CPD credential are considered to have the highest level of skills in the design and specification of plumbing systems.

## EARNING & MAINTAINING THE CPD CREDENTIAL

### Am I eligible?

#### Route 1:

**4** year engineering degree + 4 years of work experience designing plumbing systems

#### Route 2:

**8** years of work experience designing plumbing systems

#### Other eligibility options:



**Current CPDT** certification counts toward 1 year of experience

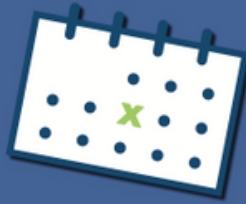


**PE license** counts toward 2 years of experience

# When can I take the exam?



The exam is held **annually** in the spring



**Registration** typically opens in December prior to the exam date



You can register online at [education.aspe.org](http://education.aspe.org)

## Where do I take the exam?

The CPD exam is held at **online testing centers** around the world



## Did I pass or fail?

Scores are **mailed** 6 to 8 weeks after the exam



## Maintaining your CPD credential

- ✓ You must earn 24 hours of continuing education every 2 years
- ✓ You can find recertification details at [aspe.org/education-credentialing/cpd/recertification/](http://aspe.org/education-credentialing/cpd/recertification/)

## For more info:

[aspe.org/education-credentialing/cpd/](http://aspe.org/education-credentialing/cpd/)  
or email [certification@aspe.org](mailto:certification@aspe.org)





## **2024 CPD Exam Dates: April 15–26**

The CPD Exam

To be eligible to take the CPD Examination, a candidate must possess:

Full ASPE membership or previously received approval to sit for the exam starting November 22, 2021; or

A minimum of four years of experience in a position of responsibility for the design of plumbing systems and possess a baccalaureate degree in a field related to engineering; or

In lieu of an accredited degree, a candidate may substitute up to an additional four years of practical experience in the design of plumbing systems, for a total of eight years, or be granted a credit of one-half year of practical experience for each full year of education in an accredited curriculum related to plumbing engineering.

CPDT Certification counts towards 1 year of experience.

Here's more about the CPD Examination:

[General exam FAQs](#)

[Exam open book policy FAQs](#)

[2023 CPD Bulletin](#)

The exam is [remote proctored](#).

[CPD eligibility form](#)

The 2024 CPD Exam fees are:

ASPE Members \$450

Nonmembers \$675



## CPD REVIEW CLASS



Instructor: Donald Taylor

CPD REVIEW CLASSES:

MARCH 2ND AND 3RD

10 AM – 3 PM (VIRTUAL)

MOCK EXAM: MARCH 30TH

10 AM – 3 PM (VIRTUAL)



**REGISTER TODAY**

For more information contact Donald Taylor  
at [donald.taylor@crbgroup.com](mailto:donald.taylor@crbgroup.com) or  
Call 405.406.0548

# WHAT IS A Plumbing Engineer?

**PLUMBING ENGINEERS** are a vital part of design/build construction teams for residential, commercial, and industrial facilities. They interact with other construction trades to provide building owners with efficient, functional, and sustainable plumbing systems that protect the health, welfare, and safety of the public and prevent environmental contamination.

## WHAT DO PLUMBING ENGINEERS DO?

**PLUMBING ENGINEERS** use the principles of fluid flow along with engineering calculations to design plumbing systems that transport fluids and gases throughout buildings. Those systems include:

$$S = \frac{rpm\sqrt{Q}}{NPSH^{0.75}}$$
$$x 2.31 - h_f L + \frac{(P_B - V_p)}{\text{Specific gravity}}$$



Domestic water systems



Wastewater



Fuel gas



Medical gas & vacuum



Compressed air



High-purity water



Fire suppression



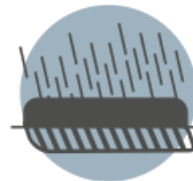
Chemical waste



Rain & stormwater systems



Venting



Site & building drainage



Water efficiency

## WHAT DOES THE PROFESSION ENTAIL?

*"The old adage that 'anyone can do plumbing' does not hold water anymore. A diversified and accomplished plumbing engineer is a valuable commodity in the design/build market."*



**PLUMBING ENGINEERS** are highly skilled individuals involved in many different aspects of the design/build process, including:

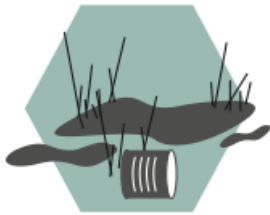
PLUMBING SYSTEM DESIGN	COMMISSIONING
PROJECT MANAGEMENT	CODE & STANDARD EXPERTISE
CONSTRUCTION ADMINISTRATION	FORENSIC & SUBSURFACE SYSTEM EVALUATION
BUILDING INFORMATION MODELING (REVIT)	COST ESTIMATION
PRODUCT & SYSTEM SPECIFICATION	PROBLEM SOLVING

## PROTECTING PEOPLE & THE ENVIRONMENT

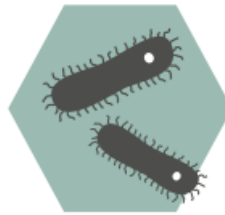
**PLUMBING ENGINEERS** help eliminate many of the threats that sicken people and harm the environment on a global scale by:



**Delivering** safe drinking water & sanitation systems



**Combating** groundwater contamination & depletion

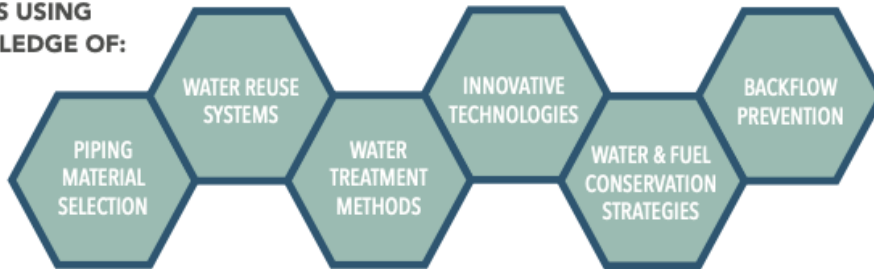


**Preventing** waterborne diseases



*“Through their designs, plumbing engineers affect every life.”*

**THEY DO THIS USING THEIR KNOWLEDGE OF:**



## HOW TO LEARN MORE

The American Society of Plumbing Engineers (ASPE) is the only association dedicated to promoting the plumbing engineering profession and helping plumbing engineers advance in their careers. Our members have a wealth of knowledge and experience and are ready to help others learn more about the industry.



To discover ASPE and find local contacts, visit:

[aspe.org](http://aspe.org)



Connect with Us



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# Special Interest Groups

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Women  
of ASPE®



**Shannon Yancey**

We are pleased to announce that Shannon Yancey with Caleffi North America has agreed to take on WOA Chair for our Houston Chapter. We are excited to have her part of the team and she will have some exciting events lined up soon for our Women of Aspe!

ASPE  
YOUNG  
PROFESSIONALS



**Joe Brewers**

The ASPE Young Professionals (AYP) special interest group is designed for young industry professionals looking to meet with peers to share experiences, exchange ideas about the plumbing design industry, and network with other chapter members. The focus of AYP is to help young plumbing engineers, design professionals, and practitioners establish contacts and further the mission of the Society. ASPE Members 35 years old and younger are all included in this special interest group.

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**ASPE  
YOUNG  
PROFESSIONALS**

**KIRBY  
ICE HOUSE**  
*"A Neighborhood Pearl."*



*Good Times!*

# Construction Code Modernization

Now, more than ever, we must be at our strongest and most resilient as we Build Houston Forward.

Together we create a strong foundation for Houston to thrive!

Welcome to the City of Houston's Construction Code Modernization project page! We encourage all stakeholders to participate as we prepare for the adoption of the 2021 Building Codes.

Construction codes significantly mitigate the effects of hurricanes, storm surges, and extreme weather changes. By staying current with our building codes, we can help our residents protect their homes and businesses by providing safer, more resilient construction that will support greater economic security and public safety.

**SIGN UP**

To sign up for trainings, please lead ASPE members to <https://www.houstonpermittingcenter.org/construction-code-modernization>.

As of this moment, we are presenting the following trainings and I'm targeting the week of 01.29 for MEP trainings:

Wed., Jan. 10, 2024 for BOMA trainings (Commercial including Energy Conservation)

Wed., Jan. 17, 2024 for AIA trainings (Commercial and Residential both including Energy Conservation)

Wed., Jan. 24, 2024 for GHBA trainings (Residential including Energy Conservation)

Week of 01.29.23 we will do trainings for 2021 Mechanical and Plumbing and 2023 NEC. I'll let you know, once we complete the lineup.



# DIAMOND



# GOLD



# SILVER



# BRONZE



# Houston Adopts Uniform Plumbing Code and Uniform Mechanical Code



Posted 26 Oct 2023

Tagged on IBU

**Houston** — The Houston City Council, representing the nation's fourth most populous city, has voted to adopt the 2021 editions of the *Uniform Plumbing Code (UPC®)* and *Uniform Mechanical Code (UMC®)*. This vote follows an extensive review conducted as part of the city's Construction Code Modernization Project, which involved more than 200 community stakeholders representing more than 50 construction and industry associations.

This adoption is an update from the 2015 editions of these codes and will go into effect Jan. 2, 2024. The city of Houston has utilized the Uniform Codes since 1985.

"Our commitment to ensuring the health, safety, and welfare of our residents is unwavering," said Houston Mayor Sylvester Turner. "Advancing from the 2015 to the 2021 base codes reaffirms that commitment and furthers our Resilient Houston plan."

The adoption of the 2021 editions reaffirms Houston's dedication to setting high standards for construction and building maintenance, providing a safer and more sustainable living environment for all.

"We are pleased that the Houston City Council voted in favor of endorsing the continued use of the Uniform Codes, which are the preferred codes of the industry," said Wayne Lord, business manager of Plumbers Local Union 68.

"This decision ensures safety, elevates construction standards, and aligns with the industry's best practices," said Josh Hollub, Plumbing-Heating-Cooling Contractors Association of Texas (PHCC) board member.

There are many significant resilient provisions that communities can enjoy in the *UPC*, such as specifications to address the impact of water temperature on the potential for scalding and *Legionella* growth. The *UPC* also includes holistic provisions for storm piping materials and sizing methodologies, along with domestic water right-sizing through the addition of the Water Demand Calculator™ (WDC) (<https://www.iapmo.org/water-demand-calculator/>).

Other noteworthy updates in the 2021 editions include:

- Alternate Water Sources for Nonpotable Applications
- Nonpotable Rainwater Catchment Systems
- Alternate Plumbing Systems
- Potable Rainwater Catchment Systems
- Sustainable Practices
- Hydronic provisions for radiant heating and cooling
- Geothermal energy systems

"It has been a pleasure to work alongside the local plumbing industry, city staff, and city council as they deliberated this important action," said John Mata, IAPMO Field Services representative.

Introduced in Los Angeles in 1928 and formally published as the *Uniform Plumbing Code* in 1945, the *UPC* is developed to govern the installation and inspection of plumbing systems as a means of promoting the public's health, safety and welfare. Later published by IAPMO in 1967, the *UMC* provides the same governance for mechanical (HVAC, combustion, exhaust, refrigeration) systems. Developed and subsequently republished at the conclusion of each three-year code cycle, the *UPC* and *UMC* are designed to provide consumers with plumbing, heating, and mechanical systems that meet all applicable standards while, at the same time, allowing latitude for innovation and new technologies.

[Link to IAPMO Reference](#)



**Vanessa Aguilar  
Lunita Bondar  
Joe Clark  
John Garner  
Anthony Jaspal  
Chris Johnson  
Geoffrey Lussier  
Dwight Mains  
Ron Nevil  
Lawrance Richardson  
Vince Roach  
Michael Rostvold**

**Victor Schneider  
Jay Stenklyft  
Zach Wehner  
Marcus Asmar  
Micheal Victor Dodson  
Mauricio Franco  
Ron Nevill  
Vince Roach  
Christon A. Royal  
Roger Vincer**

**BRADFORD WHITE**  
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Built to be the Best

**MORE PROTECTION THAN EVER**

Vitraglas® is an exclusive enamel tank lining that provides unsurpassed protection from the corrosive effects of water. Microban® antimicrobial technology provides additional product protection by helping to prevent the growth of bacteria, mold and mildew on the surface of the tank lining.

**Bradford White Microban® specifications can be accessed in the following locations:**

- BSD Speclink to get Microban® integrated into the platform.
- MasterSpec to get Microban® integrated into the platform.
- Specification section on the Bradford White website (scan the code to access).

**VITRAGLAS** + **MICROBAN**

**PMI**  
Sales and Marketing, Inc.

Curtis Dady  
(346) 287-6939  
CurtisD@PMIreps.com

Microban® antimicrobial product protection helps prevent the growth of bacteria, mold and mildew that may affect the product. The built-in antimicrobial properties do not protect users or others from disease-causing organisms. Microban® is a registered trademark of Microban Products Company. ©2022, Bradford White Corporation. All rights reserved.

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Recirculation Systems

Automatically and continuously maintain the right temperature of your fixtures

**CHOOSE YOUR PERFECT FIT**

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**ALBERT STERLING & ASSOCIATES, INC.**

Houston  
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THE FIRST CONCEALED  
**IN THE WALL**  
ELECTRIC TANKLESS WATER HEATER

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**BENEFITS**

- Provides bathroom flexibility
- Can serve single or multiple lavatories
- Available with prefabricated Disconnect Switch
- Matches bathroom walls for a seamless look
- Provides vandal resistance for the heater
- Prevents legionella by instantly heating the water
- 99% EF with zero gas emissions
- Provides ADA compliance for lavatories
- Available with integral ASSE 1070 (CM Model)
- Meets energy code by supplying hot water in under 6 seconds

**CODE COMPLIANCE**

**The Comprehensive Approach to Fire Protection.**

The most important component to fire protection is security. This security is gained through the knowledge that each and every step of any fire protection project is always handled with the utmost care and given the utmost attention. This security comes with the combined experience of 100 years of specialty fire detection & suppression offered to all the clients of Detection & Suppression International, Ltd.

DESIGN \* DEVELOPMENT \* MARKETING \* INSTALLATION \* SERVICE  
FEASIBILITY STUDIES \* CONCEPTUAL DESIGN \* SPECIFICATION GUIDES  
PRICING \* FORMAL DESIGN AND SUBMITTALS \* PROCUREMENT  
TESTING \* SYSTEM CERTIFICATION \* EMPLOYEE TRAINING

CHRISTOPHER B. ENNIS, CET  
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P. MARK THOMASSON, CET  
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# Career Opportunities

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Infinity MEP+S is looking for **Plumbing Designers** to join our team in Houston! If you're interested in becoming a part of our team and building a career, we want to talk to you!

At Infinity, we are committed to building a culture of growth and development within our team. Our employees are our greatest asset, and we strive to give them the resources and training to reach their full potential.

Check out our job post for more information!

Or send resumes to [nbadke@infinitymep.com](mailto:nbadke@infinitymep.com)

Spread the word and connect us with anyone that is looking for this new opportunity!



Wylie Engineering is hiring! We are looking for Plumbing Designers with experience in building construction plumbing and fire protection systems design. Come join our dynamic team in our Houston office! Wylie Engineering has a strong history of serving the architectural and construction community in Houston, Austin, and across Texas – currently celebrating our 35th anniversary! Our portfolio includes diverse and interesting projects ranging from healthcare, lab, high-rise residential, commercial office, higher education and many more.

Primary areas of responsibility include providing design concepts for plumbing and fire protection systems, coordinating design with project management and other disciplines, and production of system designs using AutoCAD & Revit.

Certified Plumbing Designer (CPD) is preferred, but not required.

Please submit resumes to [HR@wylieeng.com](mailto:HR@wylieeng.com).



# TELIOS

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Position available for a mechanical engineer/plumbing designer with a primary focus on plumbing, hydronics, and fire protection system design. Market focus will be commercial, corporate office, healthcare, and industrial facilities. Specific areas of responsibility include the following:

Designing plumbing and fire protection systems for a fully operational facility.

REVIT based design production.

Assisting in the coordination of project designs with other disciplines.

Attending construction site observation and construction administration meetings.

Maintaining positive client relationships.

Production of project-specific plumbing, hydronics, and fire protection specifications.

### Minimum Criteria

3 to 7 years experience in plumbing systems design

Bachelor's degree in Architectural or Mechanical Engineering is preferred, but not required.

E.I.T. is preferred, but not required.

Strong quality control of documents.

Please submit resume to [career@teliospc.com](mailto:career@teliospc.com).

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Revit/ACAD production skills are strongly desired as well as technical knowledge.

Please send resumes or inquiries to Steve Simon [sjsimon@ramirez-simon.com](mailto:sjsimon@ramirez-simon.com).

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# Committee Members

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## **Dave Cropper**

Chapter Affiliate Liaison, Construction Industry Council

## **Francisco DeHoyos, CDP, FASPE**

Society legislation committee co-chair, Society education committee member, Society long-range committee member Region 5 legislation representative, Houston Chapter Education Chair

## **Donald Taylor, CPD, GPD, FASPE**

Board of Governors Chairman, Society Education Committee

## **Zed Hernandez**

Webmaster, Newsletter Editor/ Social Media Director

## **Greg Salter / Jaime Cruz**

Product Show Chair/ Co-chair

## **Mitch Spillman**

Region 5 Affiliate Liaison

## **Chris Ennis, CET**

Chapter Social Director

# Houston Amendments to the 2021 Uniform Plumbing Code



Adopted by Ord. No. 2023-907<sup>1</sup>

Passed October 25, 2023<sup>2</sup>

Effective January 1, 2024<sup>3</sup>



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<sup>1</sup>. The City Secretary shall insert the number of the adopting ordinance.

<sup>2</sup>. The City Secretary shall insert the date passage and approval of the adopting ordinance.

<sup>3</sup>. The City Secretary shall insert the effective date of the adopting ordinance.

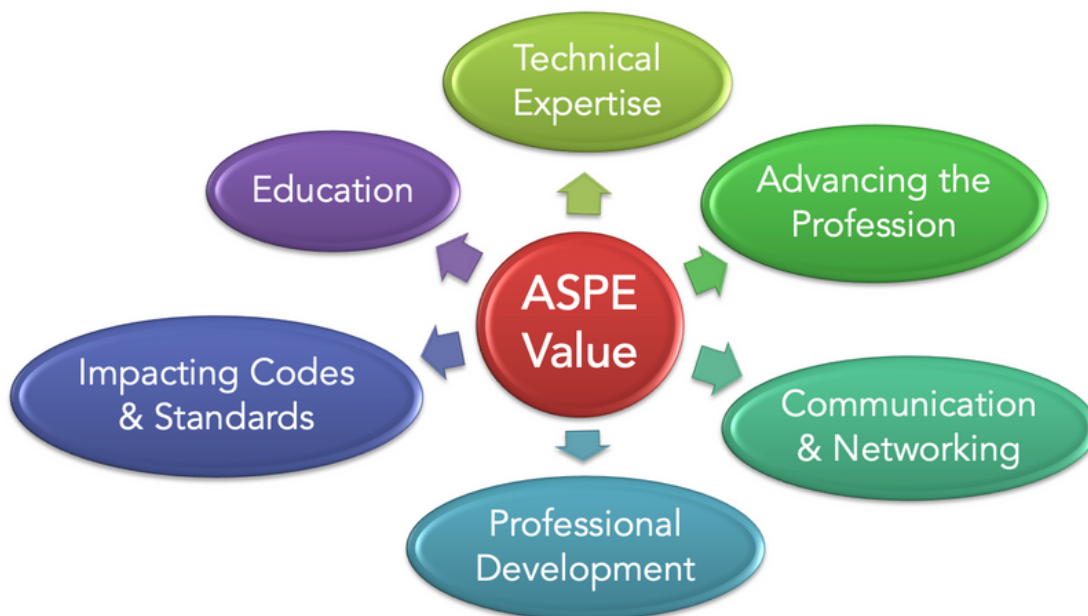


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## ASPE Purpose

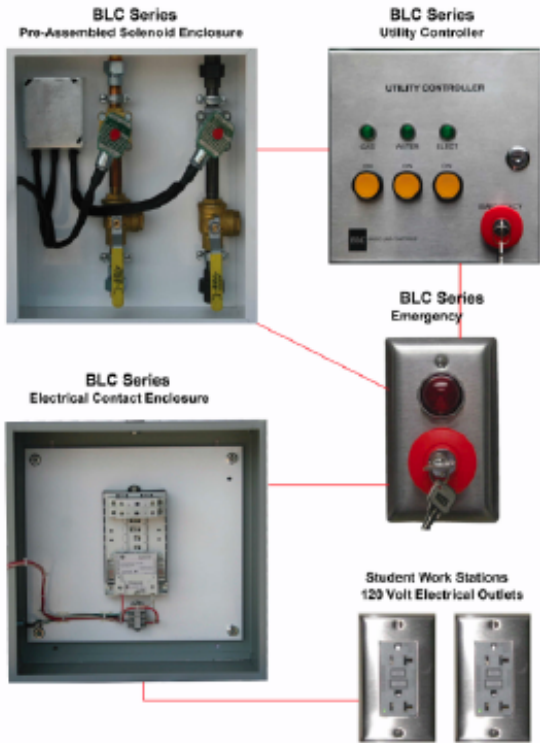
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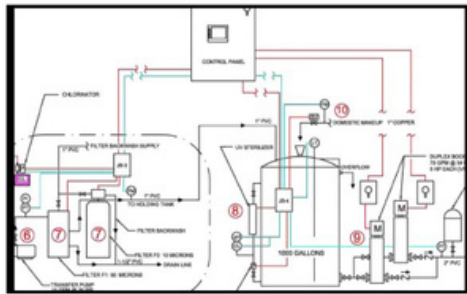
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The following are the current construction codes enforced by the City of Houston.

Code	Publisher	Effective Date
2015 International Residential Code (with Houston Amendments)	ICC	April 1, 2022
2015 International Building Code (with Houston Amendments)	ICC	April 1, 2022
2015 International Fire Code (with Houston Amendments)	ICC	April 1, 2022
2015 International Existing Building Code (with Houston Amendments)	ICC	April 1, 2022
2015 Uniform Mechanical Code (with Houston Amendments)	IAPMO	April 1, 2022
2015 Uniform Plumbing Code (with Houston Amendments)	IAPMO	April 1, 2022
2018 Swimming Pool and Spa Code (with Houston Amendments)	ICC	April 1, 2022
2020 National Electrical Code (State Mandated) • Administrative Code Provisions (Effective April 1, 2022)	NFPA	November 1, 2020
Sign Code (Chapter 46 of the Houston Building Code)	COH	July 29, 2020
2015 International Energy Conservation Code (with Houston Amendments) - <i>For One and Two-Family Dwellings and Multi-Family 3 stories or less.</i>	ICC	October 24, 2016*
2015 International Energy Conservation Code (with Houston Amendments) - <i>For Commercial Structures, including Residential Structures more than 3 stories</i>	ICC	December 9, 2016*
ASHRAE 90.1-2013 (with Houston Amendments) - <i>For Commercial Structures, including Residential Structures more than 3 stories</i>	ASHRAE	December 9, 2016*
2012 Code Words - various sections interpreted and administrative policies	COH	N/A

\* The enforcement of Chapter 11 of the 2015 International Residential Code became mandatory by state law effective September 1, 2016. The enforcement of the 2015 IECC-Commercial Provisions became mandatory by state law effective November 1, 2016.

**ICC** International Code Council  
500 New Jersey Avenue, NW  
6th Floor, Washington, DC 20001  
(888) 422-7233  
<http://www.iccsafe.org>

**IAPMO** International Association of  
Plumbing and Mechanical Officials  
4755 E. Philadelphia St  
Ontario, CA 91761  
(909) 472-4100  
<http://www.iapmo.org>

**NFPA** National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02269  
1 (800) 344-3555  
<http://www.nfpa.org/>

#### ACCESSIBILITY

For regulations pertaining to Accessibility, please contact:

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Austin, Texas 78711

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Fax: (512) 539-5690  
TDD: (800) 735-2989  
<https://www.tdlr.texas.gov/ab/abtas.htm>

The Houston Amendments to the Codes, the Sign Code, and 2012 Code Word can be downloaded at:  
<https://www.houstonpermittingcenter.org/help/codes>



# Plans review Contacts

Steve Spillman

Plan anylist Supervisor Plumbing

832-394-9174

Bobby Lewis

832-394-9175

Russell Logan

832-394-9176

Cassidy Spell

832-394-9524

Richard Warren

832-394- 9182

# ASPE Mentoring Program

This program, which is available to all members of the Society, has been designed to connect ASPE members who have a particular skill set (mentor) with individuals (mentee) who are searching to acquire the same skills to develop and make progress toward their personal and professional goals.

## **Who Is a Mentor?**

A mentor is someone who can help the mentee develop skills for success and long-range career planning, is able to be a good listener, is willing to share experiences and views, is willing to commit time and effort, provides an "open door" to questions and problems, points out both strengths and opportunities for improvement, and has a vested interest in the growth and development of their mentee.

### *Benefits to the mentor:*

- Satisfaction in helping someone mature, progress, and achieve goals
- Meeting and sharing experiences with other mentors
- Personal ongoing support to help the mentee succeed
- Personal fulfillment through contribution to the Society and the individual

## **Who Is a Mentee?**

Having a mentor can contribute to a successful and satisfying career. Without a mentor, that learning occurs mostly through trial and error. With a mentor, even experienced professionals can benefit from the experiences and expertise of someone who has withstood the trial and can help the mentee avoid the mistakes. Similarly, those new to the industry will discover that being a mentee shortens the learning curve for acquiring the skills and knowledge most critical to a fruitful career.

### *Benefits to the mentee:*

- Discover new talents about yourself
- Career satisfaction
- Expand your personal network
- Maximize your strengths

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