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## CONTACT US

International Association  
of Plumbing and Mechanical  
Officials

4755 E. Philadelphia St.  
Ontario, CA 91761 USA  
Phone: 1-909-472-4100

Fax: 909-472-4150

E-mail: [iapmo@iapmo.org](mailto:iapmo@iapmo.org)  
Website: [www.iapmo.org](http://www.iapmo.org)

IAPMO's Codes & Services  
Department toll-free phone number:  
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## International Team Delivers First-Ever Community Plumbing Challenge Design Week

An International Team comprising young plumbers, plumbing engineers and architects from Indonesia, Australia and the United States has successfully completed the first-ever Community Plumbing Challenge Design Week, marking the beginning of the Community Plumbing Challenge 2017 program (CPC2017) in Cikarang, Bekasi (West Java), Indonesia.

From July 31 to Aug. 3, 2017, the group was welcomed to Sekolah Dasar Negeri (SDN; "Public Elementary School") Cicau 02 in Cicau Village, Cikarang, where it completed a surveying and design process over four days in full consultation with school management and with further input from teachers and schoolchildren. A sustainable upgrade solution for water supply, wastewater and handwashing at the school was the objective of this collaboration. This ongoing development was complemented with a series of games and activities presented to the schoolchildren – aimed at different age groups, and delivered both inside the classroom and outside in the playground and surrounding school grounds – that demonstrated key ideas linking personal health and hygiene to water, sanitation and design thinking.

The "CPC Hub" workshop space was provided at the head office of PT. IAPMO Group

## OFFICIAL MAGAZINE



Indonesia, 3km from the neighboring Kapuk Timur industrial park, which borders Cicau Village. For the duration of the week, the International Team traveled to and from the CPC Hub base and Cicau Village for ongoing discussions, meetings and site visits, before developing a final design solution and workplan, which was presented to SDN Cicau 02 management on the final day.

The resulting plan – approved in principle by school management and now in the process of being agreed with local authorities and supporting local contractors – features the following:

- Renovation of existing toilet facilities in both buildings at SDN Cicau 02.
- Expansion of existing toilets in both school buildings, doubling the number from two toilets per building to four toilets per building for approximately 300 students and 12 staff members.
- Construction of new handwashing areas outside both renovated toilet facilities.
- Installation of two new elevated water tanks for improved water supply to the facilities.
- Installation of new wastewater system for the facilities.
- Division of the above workplan into two phases:

**Phase 1:** to be completed by the International Team at CPC2017 Construction Week in November to deliver all water supply and wastewater upgrade for both buildings, plus the renovation/expansion of toilet facilities and addition of handwashing for the first building.

**Phase 2:** to be completed by students and teachers from local vocational schools as part of the Legacy Project (February/March 2018), to deliver the renovation/expansion of toilet facilities and the addition of handwashing for the second building.

Design decisions made throughout the process have considered the new Indonesian Plumbing Standard, SNI 8153:2015, and acknowledged further experience from the Healthabitat O/S Village Sanitation and School Toilet Construction programs in Nepal (a partner program supported by the International Water, Sanitation and Hygiene Foundation). Several of the International Team members involved with CPC2017 Design Week are currently or have been previously involved with the work of Healthabitat in Nepal, and were subsequently able to develop these concepts in the new context of Cicau Village and SDN Cicau 02.

CPC2017 represents the first time an international Community Plumbing Challenge program will be delivered in two parts, with the creation of Design Week and Construction Week stages for this edition. Following the successful conclusion of CPC2017 Design Week, Construction Week is scheduled to be hosted at SDN Cicau 02 from Nov. 9 to Nov. 15, 2017. Construction Week will comprise an intensive, seven-day program that will combine global industry representatives with local expertise to deliver the workplan developed during CPC2017 Design Week (as indicated by Phase 1 in the outline above).

Crucially, for the long-term impact and sustainability of the CPC2017 program in Indonesia – with the potential to develop for similar school and village settings in the surrounding region and in other parts of the country – the resulting Design Week workplan also identifies initial CPC2017 Legacy project initiatives that will continue into 2018 (as indicated by Phase 2 in the outline above).

A full schedule for CPC2017 Construction Week will be released in September 2017. It will include additional, supporting community activities that will complement the project in November, and will identify other exciting ways for industry partners and stakeholders to get involved in the overall program.

CPC2017 Design Week was presented by:

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#### BPPS MAGAZINE



Backflow Prevention & Plumbing Standards (BPPS) magazine is the only monthly trade publication dedicated to the backflow prevention and plumbing industries. BPPS is specifically designed to address each of our audiences - including contractors, plumbers, sprinkler fitters, irrigation personnel, backflow prevention assembly installers and testers, water utilities, water operators, inspectors and manufacturers - in each and every issue.

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- PICAC (Plumbing Industry Climate Action Centre) – Australia
- USAID (United States Agency for International Development) – USA/Indonesia

In association with:

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- Healthabitat O/S – Australia
- IAPMO India (International Association of Plumbing and Mechanical Officials) – India
- SST Singapore (School of Science and Technology) – Singapore
- SMK 01, Jakarta (Sekolah Menengah Kejuruan/Vocational High School) – Indonesia
- SMK 26, Jakarta (Sekolah Menengah Kejuruan/Vocational High School) – Indonesia
- Troppo Architects – Australia

The CPC2017 Design Week International Team was as follows:

- Aidan Ward (Australia): Plumber, representing PICAC.
- Akbar Triandhika Budiman (Indonesia): Plumbing student, SMK 26 Jakarta.
- Angga Sukmanika (Indonesia): Plumbing teacher, SMK 01 Jakarta.
- Anthony Flores (USA): Plumber/Designer, representing UA Plumbers Local 78.
- Budiman Syahputra (Indonesia): Plumbing teacher, SMK 26 Jakarta.
- Jati Pambudi (Indonesia): Engineer, IAPMO Indonesia.
- Jessica Mountain (Australia): Architect, Troppo Architects.
- Matthew Geldard-Ker (Australia): MA Architecture Student, University Western Australia.
- Melynda Kensey (Australia): Architect, representing Healthabitat O/S.
- Muhammad Fauzi Mustaqim Akkas (Indonesia): Plumbing student, SMK 01 Jakarta.
- Nicholas Hipp (USA): Plumbing Engineer, representing ASPE.

CPC2017 Design Week images are available here: <http://bit.ly/2vbnExM>

CPC2017 Design Week highlights video is available here:

<http://bit.ly/2g1VL8X> (EN version)

<http://bit.ly/2wBfVNa> (ID version)

CPC2017 Design Week: Social Media

Facebook: [/CommunityPlumbingChallenge](#)

Twitter: [@CommPlumbing](#)

Official hashtag: [#CommPlumbing](#)



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## IAPMO Combines Code Development and Standards Departments, Brings Back Aguilar to Lead New Venture

The IAPMO Group is pleased to welcome back Hugo Aguilar, who will lead a newly combined Codes and Standards department as Vice President. Aguilar returns following a yearlong stint as director of Codes and Standards for the American Supply Association (ASA), a national legislative and regulatory advocacy organization serving wholesaler-distributors and their suppliers in the PHCP-PVF industry. He spent five previous years with IAPMO as a code development administrator and staff liaison to the *Uniform Mechanical Code (UMC®)* technical committee. A California State Polytechnic University Pomona graduate with a Bachelor of Science degree in mechanical engineering and a registered Professional Mechanical Engineer in the state of California, Aguilar brings personal knowledge of IAPMO's processes and personnel as well as the experience of serving in a similar capacity the past year with ASA.

"I am glad to be back and blessed to have the opportunity to lead the IAPMO Codes and Standards Department," Aguilar said. "I look forward to serving the industry with quality codes and standards that protect the health and safety of the public."

IAPMO Code Development coordinates the ANSI-accredited voluntary consensus development process of the Uniform Codes, all designated as American National Standards. IAPMO Standards develops industry standards under its own ANSI-accredited process, to govern innovative plumbing, mechanical, solar, and recreational vehicle/manufactured housing products not fully covered by existing standards. The new Codes and Standards department will be housed at The IAPMO Group's World Headquarters West building in Ontario, California.

"Combining these two essential business units into one department will allow efficiencies and expertise to be enhanced, better serving IAPMO's other business units, our customers, and the industry as a whole," said GP Russ Chaney, CEO of The IAPMO Group.

Senior Vice President of Code Development Lynne Simnick will transition to a new role as Senior Vice President of Special Projects for IAPMO while helping to complete development and publication of the *2018 Uniform Plumbing Code (UPC®)* and *Uniform Mechanical Code (UMC®)*.

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## IAPMO's 88th Annual Conference Begins September 24

IAPMO returns to "The Last Frontier" for the first time since 2000 to hold its 88th annual Education and Business Conference, Sept. 24-28, at the Hotel Captain Cook and the William Egan Convention Center in Anchorage, Alaska.

Keynoted by four-time Iditarod winner and cancer survivor Lance Mackey, and highlighted by the Association Technical Meeting Convention toward development of the 2018 editions of the *Uniform Plumbing Code (UPC®)* and *Uniform Mechanical Code (UMC®)*, IAPMO's 2017 conference will provide significant opportunities for both education and business.

Featuring nine CEU-eligible education sessions, as well as the annual UPC/UMC workshops, attendees will have every opportunity to broaden their knowledge base while satisfying continuing education requirements toward maintaining personnel certifications.

Members in good standing will be eligible to lend their voice and vote in the ANSI-accredited consensus development process via the final full membership gathering in

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the three-year code cycle for the development of the 2018 *UPC* and *UMC*. And, of course, there will be countless opportunities for career networking with the industry's most influential and experienced people.

Full-week and one-day registration packages are available, as well as a group rate on accommodations at the Hotel Captain Cook.

Come see why IAPMO's annual Education and Business Conference is the event of choice for plumbing and mechanical professionals – or anybody with a stake in safe, healthy drinking water, sanitation, and heating/cooling systems.

[Registration is available online.](#)

For more information, please contact Travel and Events at (909) 472-4207 or [conference@iapmo.org](mailto:conference@iapmo.org).

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### **ASSE International Seeks Input on New Commercial Water Treatment Standard**

ASSE International is calling for interested and knowledgeable individuals to join the ASSE 1087 working group to develop the first complete water treatment standard for non-residential installations. ASSE 1087, Performance Requirements for Small Systems, Commercial and Food Service Water Treatment, will complement existing water treatment standards for individual devices by adding plumbing performance requirements for devices that are coupled to potable water sources. Of particular interest are backpressure, backsiphonage, and cross-connection requirements in line with ASSE International's expertise and more than 110-year history in backflow prevention. The standard will also cover specific needs for use in food service applications, but exclude process water or waste water applications.

Devices under consideration for inclusion in the standard include water softeners, deionizers, UV disinfectors, reverse osmosis systems, and distillation systems, among others. ASSE 1087 will help reduce confusion when installing these devices and promote public trust of products that comply with the standard.

"There are no commercial water treatment standards for water treatment equipment," said Tom Palkon, ASSE International Executive Director and IAPMO R&T Senior Vice President – Water Systems. "After ASSE Standard 1087 is completed, the plumbing and building industries will have a single product standard that covers water treatment product material safety, performance, structural integrity, backflow protection, cross-connection control, proper installation, and proper maintenance of equipment."

Candidates can expect a time commitment of four to eight hours per month for a duration of six months.

Those interested in participating must submit a completed [application](#) and résumé to ASSE International Staff Engineering Supervisor Conrad Jahrling by e-mail at [conrad.jahrling@asse-plumbing.org](mailto:conrad.jahrling@asse-plumbing.org).

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## Court Grants AHRI's Motion to Intervene in NRDC v DOE Lawsuit

On Friday, August 25, the U.S. District Court for the Northern District of California granted the Air-Conditioning, Heating, and Refrigeration Institute's (AHRI) motion to intervene as a defendant in two identical federal lawsuits: one filed by the Natural Resources Defense Council, Sierra Club, Consumer Federation of America, and Texas Ratepayers' Organization to Save Energy; the other by eleven states and one city. AHRI filed its motion to intervene in order to protect its members' interest in a proper interpretation of the Department of Energy's (DOE) Error Correction Rule. Plaintiffs in these two actions seek to narrow the scope of the Error Correction Rule, and to use the Rule improperly to limit DOE's discretion to correct or reconsider proposed rules before they become final.

"We are pleased that the court has granted us intervenor status in this important case," said AHRI President and CEO Stephen Yurek. "The Error Correction Rule resulted from our settlement with DOE in prior litigation, and it is critical that manufacturers are represented in any proceedings that would determine DOE's ability to modify or withdraw pre-published rules."

The lawsuits seek to mandate that DOE finalize four pre-published energy efficiency rules – including energy efficiency standards for commercial packaged boilers – that were released at the end of the Obama Administration. With the change in administration and the subsequent imposition of a regulatory freeze during a 45-day required public review period mandated by DOE's Error Correction Rule, several of the draft rules have not yet been published in the Federal Register.

District Judge Vince Chhabria has ordered the plaintiffs to file a consolidated complaint by September 8, and then for AHRI and the government to file a consolidated answer by September 22. He has also ordered all parties to attend a case management conference.

The Error Correction Rule was published in 2016 as the result of a settlement of AHRI's lawsuit against DOE pertaining to walk-in cooler and freezer standards. The Rule requires DOE to pre-publish proposed rules at least 45 days before they become final to allow parties to submit proposed corrections. AHRI and its industry partners have advocated a broad interpretation of what constitutes an "error," warranting reconsideration of the substance of a pre-published rule, and they contend that DOE has broad authority to modify or even withdraw proposed rules before they become final. In the suits, however, the plaintiffs argue that, under the Error Correction Rule, pre-published rules can only be changed to correct typographical errors or mathematical mistakes and must be published at the close of the 45-day review period.

"We believe these cases raise important issues about regulatory certainty for manufacturers and stakeholder engagement in DOE's rulemaking process," said Yurek. "We look forward to briefing the issues and working with all the parties in these cases to ensure that our members' views are represented."

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## **Pipes Replaced at 3,722 Flint Homes to Date through Mayor Weaver's FAST Start Initiative**

Lead-tainted service lines at 2,823 homes have been replaced so far in Phase 4 of Mayor Karen Weaver's FAST Start initiative. The effort is part of the mayor's plan to replace lead-tainted pipes at 6,000 Flint homes in 2017.

Crews from four area companies are replacing lead and galvanized service lines leading from the street to the water meter in residents' homes during this fourth phase of FAST Start, extending the mayor's efforts to restore safe, clean drinking water to Flint residents. Overall, service lines to 3,722 homes have been replaced since FAST Start began in March 2016.

In addition, crews have identified copper service lines at a total of 858 homes which did not need to be replaced. Workers have begun checking the composition of 4,000 service lines using hydro-excavation. The process will allow pipe replacement crews to avoid digging up copper service lines and concentrate just on homes with lead and galvanized pipes. So far, lines at 1,404 homes have been checked.

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## **Dodge Momentum Index Slips in August**

The Dodge Momentum Index moved lower in August, falling 2.4% to 129.1 (2000=100) from its revised July reading of 132.2. The Momentum Index is a monthly measure of the first (or initial) report for nonresidential building projects in planning, which have been shown to lead construction spending for nonresidential buildings by a full year. The decline in August can be attributed to an 8.7% drop in the commercial component of the Momentum Index, while the institutional component rose 7.3%. The commercial component has seen a steep rise over the past year as large projects – particularly office buildings – entered the planning cycle. The August retreat for the commercial component brings planning activity back to a level more consistent with a sustainable pace of development.

In August, eight projects entered planning each with a value of \$100 million or more. For the institutional building sector, the leading projects were the \$230 million University of New Mexico hospital replacement project in Albuquerque NM and a \$218 million high school in Aledo TX. The leading commercial building projects were the \$205 million Niagara Falls Grand Hotel in Niagara Falls NY and a \$178 million Amazon fulfillment center in Salem OR.

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## **Mario Retires from Plumbing Business**

Nintendo's biggest icon has retired from the plumbing business. The company's official Japanese website recently updated his profile/resume explaining his character:

"All around sporty, whether it's tennis or baseball, soccer or car racing, he [Mario] does everything cool. As a matter of fact, he also seems to have worked as a plumber a long time ago..."

Mario didn't start his career as a plumber – the character first appeared as "Jumpman" in 1981's *Donkey Kong*, where he was a carpenter on a construction site.

"With (1983's) *Mario Bros.*, we brought in Luigi and a lot of the game was played underground so we made him to fit that setting and, we decided he could be a plumber," Shigeru Miyamoto, the games creator, previously told *USA Today*. "The

scenario dictates his role."

The news was met with mixed reactions.

"Wherever Mario's future adventures take him, he can always be assured that he has the most honorable skill set underneath him," said Mark McManus, general president of the United Association of Journeymen and Apprentices of the Plumbing & Pipe Fitting Industry of the U.S. and Canada.

Not everyone was sad to see him leave the business. Reddit user DV8\_2XL commented:

"Good! He and his brother were a safety hazard. Constantly entering underground piping without a confined space procedure, adequate ventilation, air quality monitoring or a rescue plan."

Mario's role as a plumber helped the video game franchise become the best-selling of all time, and his character has existed now for several decades. Despite his career change, he will always be remembered as the heroic pipefitting tradesman warping through green pipes, battling giant turtles and rescuing princesses.

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## **ASSE International Issues Interpretation of Third-Party Certification Agencies and Certifiers**

The ASSE International Board of Directors and Professional Qualifications Standards Committee have issued an interpretation of a Section 6001 1-1.3 of ASSE/IAPMO/ANSI Series 6000-2015, Professional Qualifications Standard for Medical Gas Systems Personnel.

Issued in accordance with Section III, Interpretations Policy, of the ANSI-approved Procedures for the Development of Standards, below is ASSE International's interpretation of what it means to be a third-party certification agency or a third-party certifier:

A third-party certification agency (certifier), for individuals, is an independent entity that attests that a person meets the competency requirements of a scheme. They have no interest in the outcome of the certification assessment process, nor do they have any type of relationship with the person being assessed.

Third-party conformity assessment activity: conformity assessment activity that is performed by a person or body that is independent of the person or organization that provides the object, and of user interests in that object.

Clearly, a third-party certifier should not be the educational provider or be from the same entity as the educational provider.

This interpretation was approved by the ASSE International Board of Directors and Professional Qualifications Standards Committee.

For questions regarding this interpretation or ASSE/IAPMO/ANSI Series 6000, contact Marianne Waickman, ASSE International Professional Qualifications Coordinator, at [marianne.waickman@asse-plumbing.org](mailto:marianne.waickman@asse-plumbing.org) or by phone at (708) 995-3015.

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## **Rise and Fall of Roman Empire Linked to Lead Plumbing**



The Roman Empire is famous for its engineering of aqueducts and plumbing systems, bringing freshwater into their cities and carrying sewage out. A new analysis of soil samples has given experts new insight into how the discovery and use of lead piping may be linked to the rise and fall of Roman civilization, reports arstechnica.com.

Researchers tracked the levels of lead in layers of soil sediments and were able to correlate increased lead levels with urban expansion.

"High-resolution geochemical, isotopic, and <sup>14</sup>C analyses of a sedimentary core from Ostia harbor have allowed us to date the commissioning of Rome's lead pipe water distribution system to around the second century BC, considerably later than Rome's first aqueduct built in the late fourth century BC," the researchers reported.

"Even more significantly, the isotopic record of Pb pollution proves to be an unparalleled proxy for tracking the urban development of ancient Rome over more than a millennium."

Read more: <https://arstechnica.com/science/2017/08/plumbing-discovery-reveals-the-rise-and-fall-of-the-roman-empire/>

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### **IAPMO Standards Council Issues TIA UMC-005-15**

The IAPMO Standards Council on Aug. 31 issued a Tentative Interim Amendment (TIA) amending the 2015 edition of the *Uniform Mechanical Code (UMC<sup>®</sup>)*. TIA UMC-005-15 revises UMC Section 603.4.1 Length Limitation to add the sentence "Flexible air ducts shall be permitted to be used as an elbow at a terminal device."

The TIA was balloted through the Mechanical Technical Committee in accordance with the Regulations Governing Committee Projects to determine if there existed the necessary three-fourths majority support on technical merit and emergency nature to establish the recommendation for issuance. In the case of TIA UMC-005 -15, the letter ballot passed on both accounts.

In determining whether or not to issue a TIA, the Standards Council looks to the Technical Committee letter ballot for a recommendation of support. Upon a full review and consideration of all the information available to it, the Council agreed with the substantiation submitted by the proponent and thus voted to accept the recommendation of the Technical Committee and issue TIA UMC-005 -15.

Furthermore, the regulations state that TIAs issued after the proposal closing date shall also apply, where the text of the existing document remains unchanged, to the next edition of the document. If through the conclusion of the Association Technical Meeting Convention and subsequent TC balloting and all appeals, Section 603.4.1 of the 2018 UMC maintains the text of the 2015 edition then, in accordance with the regulations, TIA UMC-005-15 shall also apply to the 2018 UMC.

To examine TIA UMC-005-15 in its entirety, please direct your Web browser [here](#).

TIAs are proposals based on the determination of an emergency nature requiring prompt action to amend code that contains an error or omission that was overlooked during the regular code development process, contains a conflict within the document or with another IAPMO document, or to correct a hazard, promote an advancement in safeguarding the public or provide an opportunity to correct an adverse impact on a product or method of installation.

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[www.iapmo.org](http://www.iapmo.org)

**WaterSmart Innovations 2017**  
October 4-6, 2017  
Las Vegas, NV  
[www.watersmartinnovations.com](http://www.watersmartinnovations.com)

**PHCC Connect 2017**  
October 4-6, 2017  
Milwaukee, WI  
[www.phccweb.org/connect](http://www.phccweb.org/connect)

**ASPE 2017 Tech Symposium**  
October 19-22, 2017  
Montréal, Québec  
<http://2017tech.aspe.org/>

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|----------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------|
| September 18-22, 2017                                                                  | Phoenix, AZ          | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| September 22, 2017                                                                     | Phoenix, AZ          | Cross Connection Control Recertification - 8 hr Course and Exam      |
| November 13-17, 2017                                                                   | Phoenix, AZ          | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| November 13, 2017                                                                      | Phoenix, AZ          | Cross Connection Control Recertification - 8 hr Course and Exam      |
| CALIFORNIA SEMINARS                                                                    |                      |                                                                      |
| October 16-20, 2017                                                                    | Ontario, CA          | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| October 20, 2017                                                                       | Ontario, CA          | Cross Connection Control Recertification - 8 hr Course and Exam      |
| December 18-22, 2017                                                                   | Ontario, CA          | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| December 22, 2017                                                                      | Ontario, CA          | Cross Connection Control Recertification - 8 hr Course and Exam      |
| COLORADO SEMINARS                                                                      |                      |                                                                      |
| October 9-13, 2017                                                                     | Glenwood Springs, CO | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| October 13-14, 2017                                                                    | Glenwood Springs, CO | Cross Connection Control Recertification - 12 hr course and Exam     |
| October 23-27, 2017                                                                    | Pueblo West, CO      | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| November 13-17, 2017                                                                   | Longmont, CO         | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
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| MINNESOTA SEMINARS                                                                     |                      |                                                                      |
| 2015 Minnesota Plumbing Code Sizing and Code Application Workshop                      |                      |                                                                      |
| October 23-27, 2017                                                                    | Anoka, MN            | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| October 27, 2017                                                                       | Anoka, MN            | ASSE Cross Connection Control Recertification - 8 hr course and Exam |
| SOUTH DAKOTA SEMINARS                                                                  |                      |                                                                      |
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| NEW JERSEY SEMINARS                                                                    |                      |                                                                      |
| November 13-17, 2017                                                                   | Pennsauken, NJ       | ASSE 5110 Backflow Tester 40 Hour Class and Exam                     |
| November 17, 2017                                                                      | Pennsauken, NJ       | ASSE Cross Connection Control Recertification - 8 hr course and Exam |

## VIRGINIA SEMINARS

October 2-6, 2017

The Joyce Agency  
Chantilly, VA

ASSE 5110 Backflow Tester 40 Hour Class and Exam

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