



## Cross- Connection Control & Backflow Prevention

### Credits: ASPE

This course provides general education on the key elements of a cross-connection control program and the importance of backflow preventers and the protection and conservation of safe drinking water. Additionally, the course provides information with regard to the typical faults and failures associated with backflow prevention devices and assemblies and the various methods of troubleshooting and maintenance solutions to address backflow preventer faults and failures.



## Hydraulics of Backflow Detector Assemblies Types 1 & 2

### Credits: ASPE

This course will introduce Type I & II detector assemblies and discuss the difference in hydraulics between standard valves (Double Check Assemblies and Reduced Pressure Zone Assemblies) and their corresponding detector assemblies (Double Check Detector Assemblies and Reduced Pressure Detector Assemblies). Emphasis will be put on the advantages of the Type II assemblies, how to identify them in the field, and on agency listings and approvals.



## Irrigation Backflow Prevention Specification & Compliance

### Credits: ASPE

Explore the different types of backflow preventers used in fire sprinkler applications, relevant codes, and approvals. In this course, we'll review the benefits of using single detector checks, double check assemblies, double check detector assemblies, reduced pressure zone assemblies, reduced pressure detector assemblies, and flood detection considerations.



## Mitigating RPZ Backflow Discharge

### Credits: ASPE

A vital part of a Reduced Pressure Zone (RPZ, also known as a Reduced Pressure Principle or RP) Backflow Preventer is the relief valve. While this component is crucial to the operation and level of safety provided by the backflow preventer, in certain situations it will open and release potentially large quantities of water. Learning why this happens, how to determine the cause of an open relief valve, and measures you can take to both prevent large discharges of water and mitigate them.



## Drainage Systems for Hospitals and Medical Centers

**Credits: ASPE**

Behind every wall, under every floor, and in virtually every ceiling in a hospital you will find pipes. They are often overlooked because we rarely see them, but they could be described as the circulatory system of a building, delivering and disposing of vital fluids and gasses of the living and breathing environment.



## Improving Fire Sprinkler Safety with Backflow Prevention

**Credits: ASPE**

Explore the different types of backflow preventers used in fire sprinkler applications, relevant codes, and approvals. In this course, we'll review the benefits of using single detector checks, double check assemblies, double check detector assemblies, reduced pressure zone assemblies, reduced pressure detector assemblies, and flood detection considerations.



## Making Intelligent Drainage Choices for Ultra-Hygienic Applications

**Credits: ASPE**

This session will look at ways that hygienically designed drainage systems and an informed selection of drainage products (properly specified, installed, and maintained) can help mitigate the risk of contamination and corrosion. It will also address ways that well designed and constructed drainage can be cleaned with minimal water use and production downtime.



## Waste Drainage Systems for Plenum Spaces

**Credits: ASPE**

This course begins with a brief history of plenum codes, what they are, and where they are applicable. It covers materials used in the plenum space along with their pros and cons. It then discusses how other materials attempt to claim approval by modifying the code. Actual test results are reviewed and recommendations are provided to ensure proper code compliance.



## **Guidelines for Recommissioning Plumbing Equipment and Best Practices for Water Quality Post COVID-19**

### **Credits: ASPE**

There is an eagerness with business owners and government officials to bring our lives back to the normalcy of early 2020. The COVID-19 outbreak is showing signs of slowing down, and unfortunately, a different risk is now on the rise of opening dormant buildings with stagnant water systems. Several weeks of zero flow and tempered water can result in an increased risk of legionella, microbiological growth, heavy metals leaching, and increased corrosion within our plumbing systems.



## **Solutions to Help Control Legionella**

### **Credits: ASPE**

After years of research and development, the Centers for Disease Control (CDC) and the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) have developed protocols and standards to help avoid outbreaks using proper water management. That management requires that design professionals work with facility owners and create a specific water management plan for the facility. The successful implementation of that plan requires some specific water treatment solutions for reducing or eliminating the risk of an outbreak. This course will review the main solutions available along with some of the pros and cons of each.



## **The Intelligent Scale Solution: Template Assisted Crystallization**

### **Credits: ASPE**

The problem with water is that high concentrations of calcium and magnesium contained in the water can cause scale to form on pipes and water heating equipment. Scale increases equipment maintenance and causes premature mechanical failures resulting in significant loss in energy efficiency in water heating equipment. As an alternative to water softeners or chemical treatment, template-assisted crystallization (TAC) excels in scale prevention and meets even the most stringent environmental standards at a reduced cost.



## **The Science Behind Sanitary Design Food, Life Science & Healthcare Facility Safety**

### **Credits: ASPE**

Learn how stainless steel drainage solutions provides a hygienic, easy-to-clean, and long-lasting solution for your facility's drainage systems.



## **Control Strategies for Commercial Snow Melting**

**Credits: ASPE**

This session will look at how commercial snow melting systems and an informed selection of products and strategy - properly specified and installed - can improve facility safety, building efficiency, save snow removal costs and reduce maintenance. It will also explore various control strategies and address how to seamlessly integrate a snow melting system with a Building Automation System.



## **Snow Melting and Ice Prevention**

**Credits: ASPE**

This course is designed to give an overview of Hydronic and Electric snow melting applications for Commercial Properties. As liability, repair and maintenance costs rise, Snowmelt systems provide a solid option for snow and Ice removal for commercial properties. It provides information on reasons to consider a snowmelt, design considerations, various methodologies and financial considerations. It will also examine briefly control, panel and protections options as well as alternative tubing application options. It is intended to provide a fundamental overview of Snowmelt systems in Commercial applications.



## **Smarter, Safer Hot Water: Digital Thermostatic Mixing Stations**

**Credits: ASPE**

Specifying digital mixing and recirculation stations provide a sustainable measurement and verification system that conserves water, saves energy, protects users from hot water burns, and helps minimize the occurrence of Legionella in tempered water delivery system. There are many challenges when considering the overall integration of internal systems in sustainable high-performance buildings. Today, engineers, designers, and facility managers have new tools to directly measure, monitor, and deliver safer hot water systems due to new digital advances in hot water mixing and recirculation systems in commercial and institutional buildings.



## **Evolution of Mixing Valves & Hot Water Safety**

**Credits: ASPE**

Discuss how mixing valves are a safe way to control water temperature to mitigate the growth of Legionella, reduce the risk of scalding, and conserve water in a plumbing system.



## **Pressure Management for Water Loss in Public Water Systems** **Credits: ASPE**

A Water Loss Control Strategy is managing water pressure, which improves water efficiency and mitigates real water losses. The level of pressure management employed by a public water system (PWS) affects water leakage rates. Poor pressure management has been correlated with increased pipe failure rates.



## **Past, Present & Future of Specifications** **Credits: ASPE**

In this webinar, we will discuss collaborative tools to help your customers navigate complexities and challenges behind creating specifications. We will also focus on common issues faced by today's specifiers.



## **Wireless Water Leak Detection Systems for Commercial Buildings** **Credits: ASPE**

Learn the essentials on protecting your building from water leaks with "always on" wireless leak protection systems for commercial buildings.



## **Smart & Connected Solutions** **Credits: ASPE**

Smart and connected project planning tools, system solutions, and resources are improving the way engineers, contractors, and facility owners are conducting their daily business. With systems that speak to each other, we're achieving unparalleled levels of operational efficiency. Watch the Smart and Connected Solutions Webinar to learn how connected solutions are making it easier to select, specify, and configure solutions, and what this new wave of IoT-enabled products means for you.



## **New Technology in Backflow Prevention: The Future is Now**

**Credits: ASPE**

The world of backflow prevention is evolving every day. In the past, the only way to know there was an issue with your backflow was to run various tests. Now, you can monitor everything from a single app. This revolutionary advancement not only reduces water loss but also mitigates property damage and insurance costs.



## **Double Check ACVs for Water Transmission and Distribution Systems**

**Credits: ASPE**

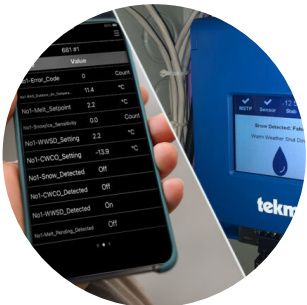
In this presentation, we will examine Double Check Automatic Control Valves and how they operate. Then describe some of their features and discuss how they can help your system, like providing cost-effective solutions and understanding the effects of pressure.



## **Managing Water Main Breaks Effectively for Distribution Piping Systems**

**Credits: ASPE**

In this presentation, we will examine water main break Safety Shutdown Automatic Control Valves and how they operate. Then, describe some of their features and discuss how they can help your system.



## **Drainage Systems for Hospitals and Medical Centers**

**Credits: ASPE**

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