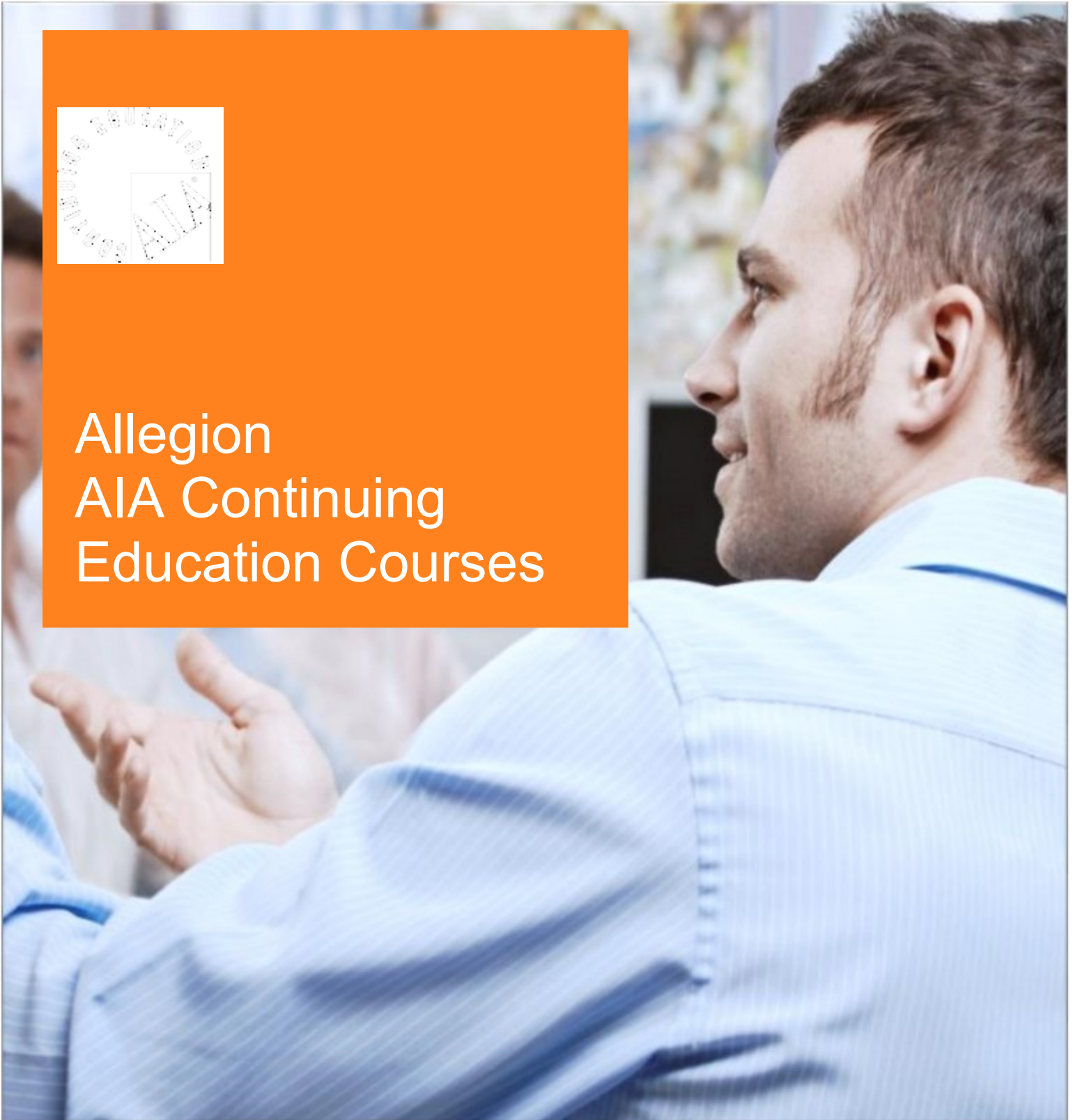# Allegion
AIA Continuing
Education Courses

Allegion is a leading global provider of products and services that make environments safe, secure and productive. Allegion's market-leading products include electronic and biometric access control systems; time and attendance and personnel scheduling systems; mechanical locks and portable security, door closers and exit devices, steel doors and frames, architectural hardware and technologies and services for global security markets.

Allegion offers AIA/CES registered provider programs committed to quality programming and professional development. Most of these programs also meet the Health, Safety, and Welfare criteria.

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Request AIA/CES Continuing Education Programs – To arrange for classes in your area call the office in your territory.

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AIA CES Registered Course Offerings

✓	ILT Program	Distance Learning	INSTRUCTOR LED – Program Name	CEHs	HSW Credit
	CDG718		Finish Hardware and the ADA	1	Yes
	CDG905A		1 Vs. 100 Decoded Edition	1	Yes
	CDG905B		1 Vs. 100 Accessibility	1	Yes
	CDG905C		1 Vs. 100 Fire and Life Safety	1	Yes
	CDG905D		1 Vs. 100 Electrified Hardware	1	Yes
	CDI20005	CDD20050	Code Changes Affecting Classroom Doors	1	Yes
	CDI723		2015 Model Code Updates as They Pertain to Doors & Door Hardware	1	Yes
	CDI726	CDD20052	Codes and Egress Hardware	1	Yes
	CDI727		Architectural Hardware Code Update	1.5	Yes
	CDI805		IBC 2015: Sections 403, 1010, 1025 & Chapter 11 Accessibility	1	Yes
	CDI807		Code Update Roundtable – Fire Doors and Mechanical Hardware	2	Yes
	CDI808		Code Update Roundtable – Advanced Concepts and Electrified Hardware	2	Yes
	CDI810		Fire Door Hardware	1	Yes
	CDI814	CDD20056	Taming Tornado Alley	1	Yes
	CDI815		Tornado and Severe Windstorm Openings	1	Yes
	CDI901		Code Jeopardy	1	Yes
	CDI908	CDD20075	Creating a Path to Safety	1	Yes
	CDI910		Code Jeopardy 2	1	Yes
	CDI917	CDD20051	ADA Entrance Accessibility	1	Yes
	CDI918		C is for Codes	1	Yes
	CDI924		It's All About the Codes	1.5	Yes
	CDI926	CDD20061	Decoded 1 – Codes and Accessibility Requirements	1	Yes
	CDI927	CDD20068	Decoded 2 – Fire Door Assemblies	1	Yes
	CDI928	CDD20076	Decoded 3 – Egress & Life Safety	1	Yes
	CDI929	CDD20074	Decoded 4 – Codes for Electrified Hardware	1	Yes
	LS201v2020		Understanding Fire Door Inspection Requirements	6	Yes
	LS801		Preparing for Fire Door Inspections	3	Yes
	PEG802		Electrified Hardware Facts and Myths	1	Yes
	PEG809		Specifying Opening Hardware That Works Like Magic	1	Yes
	PEI004		Access Control: Meeting Your Client's Needs	1	Yes
	PEI721	PED20053	Essentials of Access Control	1	Yes
	PEI725	PED20059	Electrified Hardware Basics	1	Yes
	PEI803	PED20055	Electrified Hardware for Access Control Systems and Security	1	Yes
	PEI806		Electrified Hardware Jeopardy	1	Yes
	PEI826	PED20062	ABCs of Access Control	1	Yes
	PEI911		Specifying Electrified Hardware	1	Yes
	PEI930	PED20070	Access Control-Where to Start, What to Ask, How to Design	1	Yes
	PMG20008		Tune In To Specialty Doors	1	Yes

✓	Program Number	Distance Learning	INSTRUCTOR LED – Program Name	CEHs	HSW Credit
	PMG818		**Basic Hardware Jeopardy**	**1**	**Yes**
	PMG909		Guide Me through the Door	1	No
	PMI001		Form, Function, and Fire Rated Glass & Frames	1	Yes
	PMI717		Mortise Lock Features & Benefits	1	No
	PMI719		Steel Door & Frame Construction and Application	1	No
	PMI804	PMD20057	Hardware Fundamentals	1	Yes
	PMI817	PMD20069	Specifying Door Hardware	1	Yes
	PMI825	PMD20054	Privacy is Not Dead	1	Yes
	PMI907		Take the Hard Out of Finish Hardware	1	Yes
	PMI912		Severe Storm Hardware Testing & Compliance	1	Yes
	PMI920	PMD20060	Basic Hardware Locks, Exit Devices and Keying	1	Yes
	PMI921		Gasketing, Door Bottoms, & Thresholds	1	Yes
	PMI923	PMD20066	Safe, Stylish, & Accessible: Solving Design Challenges with Interior Sliding Doors	1	Yes
	SPI002		Tools for Excellence: Communication & Collaboration	1	Yes
	SPI20007		Door Punch List – Creating a Better Experience	1	Yes
	SPI720	SPD20071	Door Hardware Specifications: The Who, What, & I Don't Knows for Creating a Hardware Specification	1	Yes
	SPI816	SPD20058	Collaboration to Maximize Your Project, Time, & Profit	1	Yes
	SPI913		Sustainability, Transparency, & Door Hardware	1	Yes
	VMG728		Multifamily Family Housing Codes and Hardware	1	Yes
	VMG903		Hardware for Healthcare Openings	1	Yes
	VMG906		Security Beyond the Main Entrance– Hardware for Common K-12 Openings	1	Yes
	VMI730		Multifamily Security	1	Yes
	VMI732	VMD20067	K-12 Designing for Layered Security	1	Yes
	VMI904	VMD20063	Healthcare Hardware	1	Yes
	VMI915		Common Healthcare Openings and Their Hardware Solutions	1	Yes
	VMI916		Education Hardware Problems and Solutions	1	Yes

✓	Program Number	WEBINAR Program Name	CEHs	HSW Credit
	CDW003	Codes Changes Affecting Classroom Doors	1	Yes
	CDW20006	Panic Hardware – When, Where, & Why	1	Yes
	CDW812	Codes & Door Hardware for Opening Accessibility	1	Yes
	CDW813	Taming Tornado Alley	1	Yes
	CDW931	Decoded 1 – Intro to Accessibility Requirements	1	Yes
	CDW932	Decoded 2 – Fire Door Assemblies	1	Yes
	CDW933	Decoded 3 – Egress & Life Safety	1	Yes
	CDW934	Decoded 4 – Codes for Electrified Hardware	1	Yes
	PEW722	Essentials of Access Control	1	Yes
	PMW811	Hardware Fundamentals	1	Yes
	PMW902	Privacy is Not Dead	1	Yes
	SPW819	Collaboration to Maximize Your Project, Time, & Profit	1	Yes
	SPW914	Sustainability, Transparency, & Door Hardware	1	Yes
	SPW925	Door Hardware Specifications: The Who, What, & I Don't Knows for Creating a Hardware Specification	1	Yes
	VMW731	K-12 Designing for Layered Security	1	Yes

Course Descriptions

Course Number: CDG718
Course Name: **Finish Hardware and the ADA**
Length: 1 HSW Continuing Education Hour
Course Description:
Hardware plays an important role in helping facilities meet the accessibility requirements prescribed by the Americans with Disabilities Act (ADA). Test your knowledge and have fun learning about ADA requirements as they relate to doors and door hardware in this interactive course.
Course Objectives:
Upon successful completion of this course participants will be able to:
- define requirements for accessible openings according to the ADA
- state hardware requirements of accessible openings according to the ADA
- identify opening and closing forces of accessible openings according to the ADA
- identify opening dimensions and clearances of accessible openings according to the ADA

Course Number: CDG905A
Course Name: **1 vs. 100 Decoded Edition**
Length: 1 HSW Continuing Education Hour
Course Description:
The topic of this class is code requirements pertaining to door openings. The class will be taught in a 1 vs. 100 game show format with the presenter as the "1" and the attendees as the "100" (AKA "the mob"). Questions are organized by topic – Accessibility, Fire and Life Safety, and Electrified Hardware. Each question is shown, answered by the mob, and then the correct answer is discussed by the presenter.
Course Objectives:
Upon successful completion of this course participants will be able to:
- apply the requirements of the Americans with Disabilities Act guidelines and ICC A117.1 standard to door openings in new and existing buildings
- state the basic requirements for fire door assemblies, including the NFPA 80 criteria for annual fire door assembly inspection
- convey the intent of the door-related egress requirements, including the International Building Code and NFPA 101 – The Life Safety Code
- identify the sections of the code related to electrified hardware, including delayed egress locks, stairwell reentry, and electromagnetic locks

Course Number: CDG905B
Course Name: **1 vs.100 Accessibility**
Length: 1 HSW Continuing Education Hour
Course Description:
The topic of this class is accessibility code requirements pertaining to door openings. The class will be taught in a 1 vs. 100 game show format - with the presenter as the "1" and the attendees as the "100" (AKA "the mob"). Questions are progressively more difficult as the game continues. Each question is shown, answered by the mob, and then the correct answer is discussed by the presenter.
Course Objectives:
Upon successful completion of this course participants will be able to:
- find requirements in the applicable standards – either the 2010 Americans with Disabilities Act guidelines, or ICC A117.1 – Accessible and Usable Buildings and Facilities
- express the intent of the ADA requirements and where to apply them
- describe the basic accessibility requirements that apply to door openings, including clear opening width, opening force, closing speed, and operating hardware requirements
- list new requirements such as battery back-up for automatic operators, minimum bottom rail height, and operational force limitations

Course Number: CDG905C
Course Name: **1 vs. 100 Fire and Life Safety**
Length: 1 HSW Continuing Education Hour
Course Description:
The topic of this class is fire & life safety code requirements pertaining to door openings. The class will be taught in a 1 vs. 100 game show format - with the presenter as the "1" and the attendees as the "100" (AKA "the mob"). Questions are progressively more difficult as the game continues. Each question is shown, answered by the mob, and then the correct answer is discussed by the presenter.
Course Objectives:
Upon successful completion of this course participants will be able to:
- find requirements in the applicable codes and standards – either NFPA 80 – Standard for Fire Doors and Other Opening Protectives, the International Building Code, or NFPA 101 – The Life Safety Code
- express the intent of the NFPA80 requirements and where to apply
- describe the basic fire and life safety requirements that apply to door openings, including closing, latching, and clearance requirements for fire doors, and single operation egress
- list new requirements such as fire door inspection, panic hardware occupant loads, impact-resistant glazing, tornado shelters, and smoke gasketing

Course Number: CDG905D
Course Name: **1 vs.100 Electrified Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
The topic of this class is code requirements pertaining to electrified door hardware. The class will be taught in a 1 vs. 100 game show format - with the presenter as the "1" and the attendees as the "100" (AKA "the mob"). Questions are progressively more difficult as the game continues. Each question is shown, answered by the mob, and then the correct answer is discussed by the presenter.
Course Objectives:
Upon successful completion of this course participants will be able to:
- find requirements in the applicable codes and standards – either the International Building Code or NFPA 101 – The Life Safety Code
- express the intent of the NFPA101 requirements and where to apply
- describe the basic requirements that apply to electrified hardware – including fail safe vs. fail secure terminology, and requirements for access control, delayed egress, and stairwell reentry
- list new requirements such as electromagnetic locks, elevator lobby egress, and hospital unit lockdown

Course Number: CDI20005 / CDD20050 (Distance Learning)
Course Name: **Code Changes that Affect Classroom Doors**
Length: 1 HSW Continuing Education Hour
Course Description:
The 2018 editions of the International Building Code, International Fire Code, and NFPA 101 – Life Safety Code, all include changes specific to classroom doors. A Tentative Interim Amendment was approved in 2019, which further modifies the 2018 edition of NFPA 101. This course will cover the requirements of the model codes and the ADA Standards for Accessible Design that apply to classroom doors.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the requirements of the model codes and accessibility standards that apply to classroom doors.
- describe how recent code changes and state legislation impact the types of security devices allowed for classrooms.
- explain the various risks faced by school districts, and the benefits of the all-hazards approach to security
- suggest options school districts should consider for securing classroom doors and talk about the retrofit security methods that may have unintended consequences.

Course Number: CDI723
Course Name: **2015 Model Code Updates as They Pertain to Doors & Door Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
New code requirements go into effect when a code is adopted in a particular jurisdiction. The code that is in effect at the time a building permit is issued, is typically the code that must be met for that project. When researching a code issue, it's important to refer to the model code, also called the base code, as well as any state modifications.
In this course we will discuss the changes made in the 2015 versions of the model codes as they apply to doors and door hardware.
Course Objectives:
Upon successful completion of this course participants will be able to:
• determine which code or what part of a code prevails when there are conflicting requirements
• describe the limitations for fire-resistance-rated glazing and fire-protection-rated glazing
• list modifications made in IBC 2015 to delayed egress & controlled egress requirements
• explain changes in NFPA 101 for corridor openings in health care facilities

Course Number: CDI726 / CDD20052 (Distance Learning)
Course Name: **Codes and Egress Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
This course focuses on codes that affect an architect's choice of hardware as they apply to egress openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
• list building codes that affect hardware choices for egress doors
• specify access control products for egress doors that meet code requirements
• state the requirements for delayed egress hardware in a means of egress & list appropriate places for its use
• describe the difference between panic and fire hardware and list needs to consider when specifying these products

Course Number: CDI727
Course Name: **Architectural Hardware Code Update**
Length: 1.5 HSW Continuing Education Hours
Course Description:
When specifying hardware, codes play a large part in your choices. In this course, we will cover how to determine which code you need to reference when designing an opening and discuss opening needs for passing fire door inspections. We will also cover electrified hardware requirements and the new requirements for panic hardware, luminous egress path markings and the ADA.
Course Objectives:
Upon successful completion of this course participants will be able to:
• determine the basics of code development and how to determine which code to reference
• describe fire door inspection and smoke gasketing requirements
• list electrified hardware requirements including delayed egress locks, electromagnetic locks, and stairwell reentry
• state new requirements for panic hardware, luminous egress path markings, and the ADA

Course Number: CDI805
Course Name: **IBC 2015: Sections 403, 1010, 1025 & Chapter 11 Accessibility**
Length: 1 HSW Continuing Education Hour
Course Description:
This one-hour course will take you through Section 403 High-Rise Buildings concerning doors, frames and hardware, Section 1010 doors, gates and turnstiles and Section 1024 luminous egress path markings concerning doors, frames, and hardware, along with Chapter 11 accessibility.
Course Objectives:
Upon successful completion of this course participants will be able to:
• discuss the requirements of Section 403 High-Rise Buildings concerning doors, frames and hardware
• explain the requirements of Section 1010 Doors, Gates and Turnstiles concerning doors, frames and hardware
• apply the requirements of Section 1024 Luminous Egress Path Markings concerning doors, frames & hardware
• discuss the requirements of Chapter 11 Accessibility concerning doors, frames and hardware

Course Number: CDI807
Course Name: **Code Update Roundtable – Fire Doors and Mechanical Hardware**
Length: 2 HSW Continuing Education Hours
Course Description:
In this class, students use a partial copy of the International Building Code (IBC) to answer questions that might be encountered during design, construction, or renovation of an actual project. Questions focus on fire doors and requirements that apply to mechanical hardware. A facilitator works with each group of 6-8 students to find the answers in the code and discuss the applicable code sections, so the intent is clearly understood.
Course Objectives:
Upon successful completion of this course participants will be able to:
• interpret the requirements of the 2018 IBC that apply to door openings by using Sections 716 and 1010 to answer questions about mechanical hardware and doors
• list door-related changes to the IBC from 2003 to the most current edition (2018)
• discuss the IBC requirements that apply to fire doors (Section 716) and egress (Section 1010)
• answer real-world questions about fire door test methods, acceptable hardware for egress and accessibility, and panic hardware

Course Number: CDI808
Course Name: **Code Update Roundtable – Advanced Concepts and Electrified Hardware**
Length: 2 HSW Continuing Education Hours
Course Description:
In this class, students use a partial copy of the International Building Code (IBC) to answer questions that might be encountered during design, construction, or renovation of an actual project. Questions focus on advanced concepts such as school security, fire door inspection, and electrified hardware. A facilitator works with each group of 6-8 students to find the answers in the code and discuss the applicable code sections, so the intent is clearly understood.
Course Objectives:
Upon successful completion of this course participants will be able to:
• interpret the requirements of the 2018 IBC that apply to door openings by using Sections 716 and 1010 to answer questions about electrified hardware and other advanced concepts
• list door-related changes to the IBC from 2003 to the most current edition (2018)
• discuss the IBC requirements that apply to fire doors (Section 716) and egress (Section 1010)
• answer real-world questions about securing classrooms and other school-security methods, required inspections for fire doors, and electrified hardware for access control, delayed and controlled egress, and stairwell reentry

Course Number: CDI810
Course Name: **Fire Door Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
Codes affect hardware choices. In this course, we'll review fire ratings, fire rating requirements on different door classification openings, and the hardware, glass, and auxiliary items that can be used on fire rated openings to be sure they are code compliant.
Course Objectives:
Upon successful completion of this course participants will be able to:
* describe how fire ratings for hardware are determined
* list the fire door classifications
* properly specify hardware components that can be used on a fire rated opening
* list the requirements of glass in a fire rated door

Course Number: CDI814 / CDD20056 (Distance Learning)
Course Name: **Taming Tornado Alley**
Length: 1 HSW Continuing Education Hour
Course Description:
Learn how to keep building occupants safe in tornadoes – one of the most deadly natural phenomena in the U.S. This course addresses the key code provisions and testing standards that apply to Federal Emergency Management Agency (FEMA) community tornado safe rooms. Participants will discover the rigorous testing standards that tornado safe room doors must pass and will learn the key criteria to consider when specifying doors for life safety.
Course Objectives:
Upon successful completion of this course participants will be able to:
* explain the key code provisions and testing standards that apply to FEMA community tornado safe rooms
* discuss the performance criteria for doors installed in community tornado safe rooms
* describe the range of tornado-resistant doors available for community safe rooms, and the applications for which they are appropriate
* decide when it is appropriate to incorporate doors with glass lights in community tornado safe rooms

Course Number: CDI815
Course Name: **Tornado and Severe Windstorm Openings**
Length: 1 HSW Continuing Education Hour
Course Description:
Severe weather takes a tremendous toll in the United States every year. Many die or are injured due to severe weather and tornados account for a large part of that. Codes are changing to insure new construction provides a safe place for inhabitants and local jurisdictions are adopting those codes. This course will discuss the codes that apply to severe weather shelters, how to determine what openings need to meet the severe weather codes and how to determine what hardware to specify to be compliant.
Course Objectives:
Upon successful completion of this course participants will be able to:
* list the various governances of severe weather and which ones take priority
* determine what openings in a tornado safe area will need approved severe storm doors and hardware
* describe how products are tested and what codes they must meet
* define what it means when an opening is "certified"

Course Number: CDI901
Course Name: **Code Jeopardy**
Length: 1 HSW Continuing Education Hour
Course Description:
One of our most popular programs, this course is delivered in an interactive game format, covering topics such as ADA as well as fire and life safety codes. Categories include Let Me In, Let Me Out, Wired, and Hot Stuff. Have fun and learn something too.
Course Objectives:
Upon successful completion of this course participants will be able to:
- identify requirements for accessible openings according to the ADA
- state code requirements for means of egress
- determine where door closers are required
- specify products that meet fire code requirements

Course Number: CDI908 / CDD20075 (Distance Learning)
Course Name: **Creating a Path to Safety**
Length: 1 HSW Continuing Education Hour
Course Description:
Getting people out of a building safely in emergency situations is critical. To help ensure that everyone is protected on the way out, there are specific code requirements for pathways and openings in an exit path. In today's class we will examine the 3 parts of means of egress and discuss the hardware necessary to meet those code requirements while also satisfying the owner's needs and wants.
Course Objectives:
Upon successful completion of this course participants will be able to:
- define exit access, exit, and exit discharge
- list the code requirements that affect hardware choices for each of the three parts of an exit route
- specify hardware for exit openings that will meet building codes and the owner's wants and needs
- discuss the difference between panic and fire hardware and list examples of when and where each should be used

Course Number: CDI910
Course Name: **Code Jeopardy 2**
Length: 1 HSW Continuing Education Hour
Course Description:
Our original Code Jeopardy game was so popular, that participants requested more, so Code Jeopardy 2 was born. This course is delivered in an interactive game format. It discusses ADA requirements, occupancy classification codes, Fire and Life Safety codes that affect openings and the hardware components that help make openings compliant.
Course Objectives:
Upon successful completion of this course participants will be able to:
- recognize ADA opening obstacles that door hardware can overcome
- list code requirements that affect hardware for openings in a means of egress
- specify opening products that meet fire code requirements
- discuss the testing of door and walls when they are comprised of large expanses of glazing or where a large part is comprised of protectives

Course Number: CDI917 / CDD20051 (Distance Learning)
Course Name: **ADA Entrance Accessibility**
Length: 1 HSW Continuing Education Hour
Course Description:
Learn about codes and regulations that apply to accessible openings, and how to choose door hardware to meet the ADA's requirements.
Course Objectives:
Upon successful completion of this course participants should be able to:
- identify requirements for accessible openings according to the ADA
- identify opening dimensions and clearances of accessible openings according to the ADA
- identify hardware requirements of accessible openings according to the ADA
- identify opening and closing forces of accessible openings according to the ADA

Course Number: CDI918
Course Name: **C is for Codes**
Length: 1 HSW Continuing Education Hour
Course Description:
Codes are integral to an architect's design for any structure. We'll review building codes applicable to doors and door hardware, means of egress requirements, and how to determine what products need to be specified for both panic and fire rated openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the applicable model, state, local/geographically driven, and specialty codes that will apply in your area
- design a means of egress that meets code
- describe the function of a fire door and state where it is required by code
- specify products for an opening that meet accessibility codes and standards

Course Number: CDI924
Course Name: **It's All About the Codes**
Length: 1.5 HSW Continuing Education Hours
Course Description:
Codes pertain to all buildings and are integral to an architect's design for any structure especially regulatory and mandatory life safety issues. Attendees will learn what codes are applicable, and how those codes affect hardware specification choices for every opening in a building. This course reviews building codes, describes means of egress and how to determine what products need to be specified for both fire and panic rated openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the applicable model, state, local/geographically driven, and specialty codes that will apply in your area
- design a means of egress that meets code
- describe the function of a fire door and state where it is required by code
- specify products for an opening that meet accessibility codes and standards

Course Number: CDI926 / CDD20061 (Distance Learning)
Course Name: **Decoded 1 – Codes and Accessibility Requirements**
Length: 1 HSW Continuing Education Hour
Course Description:
This is the first class of a 4-part series. You don't need to attend all to get CEU credit.
It introduces the codes and standards used by the door and hardware industry, and an overview of the accessibility standards for door openings. Accessibility requirements which impact the selection of doors and hardware include clear opening width, opening force, closing speed, the operation of door hardware, and requirements for automatic doors.
Course Objectives:
Upon successful completion of this course participants should be able to:
- identify the various codes and standards affecting door openings, and when to reference each one
- identify which code or standard applies to your project
- name the accessibility standards that apply to door openings, including door size, opening force, closing speed, thresholds, and operable hardware
- differentiate between the requirements which apply to manual doors vs. the requirements for automatic doors, including the referenced standards

Course Number: CDI927 / CDD20068 (Distance Learning)
Course Name: **Decoded 2 – Fire Door Assemblies**
Length: 1 HSW Continuing Education Hour
Course Description:
The second class of this 4-part webinar series. You don't need to attend all to get CEU credit.
This course covers the requirements of NFPA 80 – Standard for Fire Doors and Other Opening Protectives, which ensure that fire doors perform as designed if there is a fire. Requirements for fire door assemblies include positive-latching, door operation, minimal clearances for smoke control, and testing of the various components. The criteria and procedures for annual inspection of fire doors will also be discussed.
Course Objectives:
Upon successful completion of this course participants will be able to:
- discuss the standard for fire door assemblies – NFPA 80, and the sections which apply to swinging doors
- state when and where fire rated assemblies would be used, and describe the purpose of fire doors
- list basic rules for fire doors which ensure that fire doors will be closed and latched if there is a fire, with minimal smoke infiltration
- review the requirements for annual inspection of fire doors, including inspection criteria and procedures

Course Number: CDI928 / CDD20076 (Distance Learning)
Course Name: **Decoded 3 – Egress & Life Safety**
Length: 1 HSW Continuing Education Hour
Course Description:
This is the third class of a 4-part series. You don't need to attend all to get CEU credit. This course addresses the egress requirements of NFPA 101 – The Life Safety Code and the International Building Code. Codes impacting egress door assemblies include the means of unlatching the door to allow egress, clear opening width and opening force, luminous egress path markings, and impact-resistance requirements for glazing.
Course Objectives:
Upon successful completion of this course participants will be able to:
- identify the occupancy classification or use group for a project and understand how that classification affects code requirements
- describe basic life safety concepts including the 3 parts of a means of egress, travel distance, common path of travel, area of refuge, clear width, door swing, and dead-end corridors
- apply the means of egress requirements to door openings, to select the proper locking/latching hardware
- state additional requirements for egress doors, relative to clear width, opening force, and automatic operators

Course Number: CDI929 / CDD20074 (Distance Learning)
Course Name: **Decoded 4 – Codes for Electrified Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
This is the fourth class of a 4-part series. You don't need to attend all to get CEU credit. This course discusses how to select the appropriate hardware for various door openings and learn about the code requirements for each. The seven basic sets of codes for electrified hardware are discussed: access control/free egress, delayed egress, controlled egress (I-2), elevator lobby egress, electromagnetic locks released by a sensor, electromagnetic locks released by door-mounted hardware, and stairwell reentry.
Course Objectives:
Upon successful completion of this course participants will be able to:
* describe the concepts of "fail safe" and "fail secure", which types of electrified hardware are available with each function, and when to specify them
* properly apply code requirements for fire door assemblies and positive latching to applications with electrified hardware
* differentiate between the two code sections relative to electromagnetic locks, and which release devices are required for each application
* identify delayed egress locks and the applications where doors may be locked in the direction of egress for additional security
* apply the stairwell reentry requirements to doors serving egress stairs, including the various options allowed by NFPA 101 – The Life Safety Code and the International Building Code

Course Number: LS201V2020
Course Name: **Understanding Fire Door Inspection Requirements**
Length: 6 HSW Continuing Education Hours
Course Description:
Know what your customers will need to do when the fire door inspection requirement as prescribed by NFPA 80, 2007 Edition is adopted by their local building code? This class focuses on swinging doors and their corresponding fire door hardware. See how even the smallest hardware problem can jeopardize the integrity of a fire-rated opening.
Course Objectives:
Upon successful completion of this course participants will be able to:
* identify what a fire door assembly is, its purpose, the components of a fire door assembly (Swinging Fire Door with Builders Hardware) and the purpose those components serve
* explain the importance of maintaining and inspecting fire doors
* describe the requirements to inspect fire doors as defined by NFPA 80 2007
* identify the estimated adoption date of the standard by your state building code
* using an excerpt from NFPA 80, cite the 11 items the standard says should be verified on swinging fire doors with builder's hardware
* given a series of photos, identify code violations
* list some possible ways in which to correct common code violations
* given your facility's current fire door inspection program (or lack of), describe potential ways to improve (or establish) a fire door inspection program

Course Number: LS801
Course Name: **Understanding Fire Door Inspection Requirements**
Length: 3 HSW Continuing Education Hours
Course Description:
This is a shortened version of LS201V7
Course Objectives:
Upon successful completion of this course participants will be able to:
- identify what a fire door assembly is, its purpose, the components of a fire door assembly (Swinging Fire Door with Builders Hardware) and the purpose those components serve
- explain the importance of maintaining and inspecting fire doors
- describe the requirements to inspect fire doors as defined by NFPA 80 2007
- identify the estimated adoption date of the standard by your state building code
- using an excerpt from NFPA 80, cite the 11 items the standard says should be verified on swinging fire doors with builder's hardware
- given a series of photos, identify code violations
- list some possible ways in which to correct common code violations
- given your facility's current fire door inspection program (or lack of), describe potential ways to improve (or establish) a fire door inspection program

Course Number: PEG802
Course Name: **Electrified Hardware Facts and Myths**
Length: 1 HSW Continuing Education Hour
Course Description:
Do you look at all the choices in electrified hardware and wonder what to choose? Electrified door hardware can be the answer to many opening needs, but what do you need to know to properly specify that hardware for the opening? This fun and interactive course covers the operation, features, and functionality of popular electrified products, codes that affect your choices and factors to consider before hardware decisions are made.
Course Objectives:
Upon successful completion of this course participants will be able to:
- locate the IBC & NFPA101 model code requirements that affect electrified hardware product choices
- list factors that need to be considered before choosing electrified hardware products
- ask informed questions to help determine the best electrified products for the opening
- specify compatible electrified hardware products to create a well-functioning opening

Course Number: PEG809
Course Name: **Specifying Opening Hardware That Works Like Magic**
Length: 1 HSW Continuing Education Hour
Course Description:
Specifying the appropriate hardware for openings isn't magic, but it can be confusing when you are trying to match owner wants to location needs and code requirements. If you think you need a magic wand to make all the components come together and work seamlessly, join us for this interactive class that discusses fire and life safety hardware, along with electrified hardware, access control, ADA opening requirements, and egress needs.
Course Objectives:
Upon successful completion of this course participants will be able to:
- identify which category access control hardware falls into, and refer to the applicable section when specifying
- discuss the difference between panic hardware and fire exit hardware
- specify hardware options that will lengthen the life of opening hardware while staying compliant with codes
- choose the appropriate electrified hardware products that best meet your client's security needs while also satisfying code mandates

Course Number: PEI004
Course Name: Access Control: Meeting Your Client's Needs
Length: 1 HSW Continuing Education Hour
Course Description:
his course on electronic access control, products that will satisfy codes and meet your clients'
needs. We will discuss how to address your clients' safety concerns through the use of both hard
wired and wireless products while still maintaining design needs and code requirements on egress
openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
•   state the benefits of electronic access control vs. mechanical access control
•   list criteria to use when specifying access control products
•   explain common electronic locking functions
•   describe openings where access control is commonly used

Course Number: PEI721 / PED20053 (Distance Learning)
Course Name: **Essentials of Access Control**
Length: 1 HSW Continuing Education Hour
Course Description:
This course explores the essential components of electronic access control. We'll discuss the features
and benefits of the components that create an access control system and the solutions they can
provide for building openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
•   list benefits provided by access control
•   identify conditions that determine hardware choices
•   select appropriate hardware for specific applications
•   list the strengths and weaknesses of each type of access card

Course Number: PEI725 / PED20059 (Distance Learning)
Course Name: **Electrified Hardware Basics**
Length: 1 HSW Continuing Education Hour
Course Description:
This course covers the operation, features and functionality of electrified access control products and
the correct use and documentation of electrical access control products to meet state code
requirements.
Course Objectives:
Upon successful completion of this course participants will be able to:
•   describe hardware components that are used to create a complete electrical circuit
•   list the 7 basic code categories for electrified hardware used to control access or egress
•   reference the appropriate code and section for each type of controlled opening
•   create the proper documentation that will provide a code compliant, working opening

Course Number: PEI803 / PED20055 (Distance Learning)
Course Name: **Electrified Hardware for Access Control Systems and Security**
Length: 1 HSW Continuing Education Hour
Course Description:
Electronic locks, whether offline, networked, hardwired or wireless, along with other access-control components offer unique features and benefits that can enhance the security and safety of a facility. This course will help you understand your options when specifying products for an access-controlled system and the questions you need to ask to be sure that it will do what is needed, now and in the future.
Course Objectives:
Upon successful completion of this course participants will be able to:
- ask appropriate questions to establish the access control and security needs of your client
- list electronic locking hardware components that are commonly used in access control systems to provide safety and security
- determine the type of door monitoring needed for openings
- specify the appropriate hardware for an access control system that will best fit the security and safety requirements of your client, now and as their needs grow

Course Number: PEI806
Course Name: **Electrified Hardware Jeopardy**
Length: 1 HSW Continuing Education Hour
Course Description:
Electrified hardware is used every day on openings found in all types of buildings. Learn about commonly used electrified hardware products that can be specified to meet customer needs while still satisfying code requirements in this course delivered in a fun, interactive format.
Course Objectives:
Upon successful completion of this course participants will be able to:
- describe electrical terms as they apply to electrified hardware
- specify electrified products that satisfy code requirements and customer needs
- discuss the difference between a fail-safe electrified hardware product and one that is fail secure
- list electronic locking hardware components that are commonly used in access control systems to provide safety and security

Course Number: PEI826 / PED20062 (Distance Learning)
Course Name: **ABCs of Access Control**
Length: 1 HSW Continuing Education Hour
Course Description:
Since electronic access control is common even in small facilities, understanding the system components and the product options for each component is imperative to meeting your client's access needs. In this course, we'll explore electronic access control, its benefits, components, features and solutions, for building openings that will meet your client's needs and applicable code requirements while still providing for fire and life safety.
Course Objectives:
Upon successful completion of this course participants will be able to:
- describe the components needed to create a simple access control system
- list the product options for each needed component
- state how each option can be used to meet a customer's need
- describe the options for headend software system set up with typical head end software

Course Number: PEI911
Course Name: **Specifying Electrified Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
Clients requesting electronic access control? Discover ways to add access control to means of egress doors while meeting the life safety standards, fire, and accessibility requirements.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list electrified hardware and its role in completing an access-controlled system
- specify the appropriate electrified hardware that can withstand the demands of the opening
- specify electrified hardware that will meet the owner's needs
- specify electrified hardware that complies with Life Safety standards, accessibility requirements, and fire codes that are applicable to the building

Course Number: PEI930 / PED20070 (Distance Learning)
Course Name: **Access Control: Where to Start, What to Ask, How to Design**
Length: 1 HSW Continuing Education Hour
Course Description:
Access control can consist of anything from a key to unlock a door to a highly integrated security system. Finding the right combinations of client needs and wants and the products that are available can be a confusing task. This course walks you through using the right questions to:
- fully understand your customer's needs
- get the product types and functions that will fulfill those needs
- know which codes will affect product choices
- write a correct description of operation
Course Objectives:
Upon successful completion of this course participants will be able to:
- ask appropriate and effective questions to help understand and define the customer's needs
- list functions that are available in access control products and software that help fulfill the needs of the system
- write a correct description of operations for an access control system
- identify the codes that affect access control choices

Course Number: PMG20008
Course Name: **Tune In to Specialty Doors**
Length: 1 HSW Continuing Education Hour
Course Description:
Most of us don't think much about the doors and hardware in buildings until an opening doesn't work, but they play an important role in security and safety. In this fun and interactive course, you'll learn about openings that present special needs, such as protection from radiation, projectiles, and noise.
Course Objectives:
Upon successful completion of this course participants should be able to:
- describe how severe storm doors are tested and locate their testing methods and approvals
- specify the correct level of bullet resistant doors and the hardware for them
- describe what to look for when STC door ratings in the field differ from what is expected
- list hardware requirements and restrictions for lead doors and state places other than hospitals where they are used

Course Number: PMG818
Course Name: **Basic Hardware Jeopardy**
Length: 1 HSW Continuing Education Hour
Course Description:
Learning doesn't have to come in the form of a lecture!
This course is delivered in a fun interactive game format. It discusses the basic hardware requirements for specifying door hardware along with some of the code requirements that determine what hardware must be specified to comply with building and fire and life safety code.
Course Objectives:
Upon successful completion of this course participants should be able to:
- describe locking hardware that can be used to secure an opening that will meet the owner's needs while still complying with codes
- define "knowing act" switches, when/where they can be used, and list code requirements that pertain to them
- describe door protection hardware and how code requirements affect your choices
- specify opening hardware that best fits the use of the opening, while remaining code compliant

Course Number: PMG909
Course Name: **Guide Me Through the Door**
Length: 1 HSW Continuing Education Hour
Course Description:
It's just a door, right? You use them every day, but how much do you know about doors and frames? This course is a fun way to learn about the construction of doors and frames and materials used to meet specific codes and opening needs. You will discuss sound mitigation, sever weather, and what to think about when specifying so you will meet code and owner requirements and have an opening that operates smoothly and properly.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the strengths and weaknesses of common hollow metal door core types
- specify the right level & model door for the opening to meet code and the needs of the inhabitants
- discuss how doors, frames, glass, and gasketing can affect sound transmission
- use the appropriate doors and hardware on openings that will be exposed to severe weather

Course Number: PMI001
Course Name: **Form, Function, and Fire Rated Glass & Frames**
Length: 1 Continuing Education Hour
Course Description:
Every minute a structural fire starts in the United States, causing more than 23 billion dollars and over 3,500 deaths, 15,000 injuries. Advancements in building products are providing more options for design yet keeping up with all that is available can prove challenging. This course will give you a better understanding of the advancements made in fire rated glass, new trends, active vs passive glazing system testing, and what to look for when specifying fire rated glass to ensure you meet code without compromising aesthetics and sustainable design requirements.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the code requirements for fire rated glass products
- describe the different categories of fire-rated glazing materials and their role in fire protection
- ask the right questions to ensure that the proper product is specified and installed
- use fire rated glass products to achieve the desired aesthetics of a project

Course Number: PMI717
Course Name: **Mortise Locks Features & Benefits**
Length: 1 Continuing Education Hour
Course Description:
This course discusses the features and benefits of mortise locks and how to write a desired feature/benefit into a specification.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the features and benefits of mortise locks
- describe how the construction of the lock makes a difference in its performance
- state the benefits of a mortise lock over a cylindrical lock
- write a hardware master specification that will assist you in communicating a clear, complete, correct and concise specification

Course Number: PMI719
Course Name: **Steel Door & Frame Construction and Application**
Length: 1 Continuing Education Hour
Course Description:
Students will learn the features and benefits of different door types, such as full flush, steel stiffened, temperature rise, and stile and rail. Masonry/flush frames, drywall frames, and various installation methods are also briefly discussed.
Course Objectives:
Upon successful completion of this course participants will be able to:
- identify the fundamental frame types and their application
- list the critical construction elements of doors and their importance
- specify a frame and door type that will meet the needs of the opening while still satisfying life safety code
- identify ways to meet the aesthetic needs of the project

Course Number: PMI804 /PM20057 (Distance Learning)
Course Name: **Hardware Fundamentals**
Length: 1 HSW Continuing Education Hour
Course Description:
This course discusses the fundamentals of opening hardware. We'll discuss the function and application of opening hardware and how to correctly apply that hardware for specific applications such as fire doors, egress doors, and ADA compliant openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
- specify opening hardware that best fits the use of the opening, while remaining code compliant
- discuss the best applications for cylindrical locks, mortise locks, and auxiliary hardware
- recognize appropriate applications for panic & fire exit hardware
- describe the importance of key systems to occupant safety and owner needs

Course Number: PMI817 / PMD20069 (Distance Learning)
Course Name: **Specifying Door Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
This course reviews hardware specified for door openings in the order it is specified in a hardware schedule. We will discuss the codes that affect door hardware, and the situational factors that need to be considered when door hardware is specified.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list codes that influence door hardware
- state how those codes affect hardware choices
- describe situational factors that need to be considered when specifying door hardware
- specify the correct door hardware for the application that will also provide ADA compliant access and life safety

Course Number: PMI825 / PMD20054 (Distance Learning)
Course Name: **Privacy is Not Dead**
Length: 1 HSW Continuing Education Hour
Course Description:
With technology and social media so prevalent in our lives it appears that privacy is long gone. However, we still need and expect to have privacy in our built environments especially in spaces such as healthcare, schools, and offices where laws require privacy or where personal information is being discussed. Noise pollution can be a problem too. In this course we will discuss specialty doors and show case studies where those doors are used to help meet code and our privacy and noise reduction needs.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the key laws that govern privacy and what impacts they have on facility design
- discuss research findings showing why quiet spaces are essential to occupant well-being in hospitals, schools and offices
- articulate the amount of sound attenuation needed to ensure private conversations
- describe door options that ensure acoustic privacy while meeting your design vision

Course Number: PMI907
Course Name: **Take the Hard Out of Finish Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
Door hardware has become increasingly complicated as the demands of security have increased. Codes and regulations continue to change and evolve. As a result, specifying door hardware can be confusing and time consuming. This course will help attendees better understand hardware for openings, where and how that hardware is best used to ensure life safety and security, and how to coordinate hardware items in sets when preparing the project specification.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list all items that need to be coordinated to properly prepare a master specification and project specification
- determine the occupancy classification that applies to each project, since hardware requirements often vary by occupancy
- identify which openings will require delayed egress locks or alarms to help maintain security
- identify doors that are considered fire doors to ensure the hardware specified meets code and to prevent over specifying on non-fire rated openings

Course Number: PMI912
Course Name: **Severe Storm Hardware Testing & Compliance**
Length: 1 HSW Continuing Education Hour
Course Description:
As codes continue to get more stringent in hurricane prone areas of the country, the products designed for harsh conditions are becoming even more important.
This course will help you understand the terminology used when discussing severe storm products and will give you an overall view of the testing done on these products. You will learn what to look for when specifying these products, where to go to find product approvals, and what it takes for these products to be considered compliant.
Course Objectives:
Upon successful completion of this course participants will be able to:
- explain terms associated with severe storm products and how they apply to the hurricane codes
- describe the tests performed on severe storm products and their role in gaining code compliance
- list the four acceptable methods of code compliance for openings
- locate specific NOAs and FL numbers

Course Number: PMI920 / PMD20060 (Distance Learning)
Course Name: **Basic Hardware Locks, Exit Devices and Keying**
Length: 1 HSW Continuing Education Hour
Course Description:
This course discusses the function and application of opening hardware and how to correctly apply that hardware for specific applications such as fire doors, egress doors, and ADA compliant openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
- discuss the best applications for cylindrical and mortise locks
- list common lock functions available for both cylindrical and mortise locks
- state specification considerations for locks
- recognize appropriate applications for panic & fire exit hardware
- state the differences of open, restricted and patented keyways

Course Number: PMI921
Course Name: **Gasketing, Door Bottoms, & Thresholds**
Length: 1 HSW Continuing Education Hour
Course Description:
Participants attending this presentation will gain insight into how gasketing, door bottoms, and thresholds function on an opening, various options available for these products, and how they help ensure the opening can meet code requirements while maintaining ease of use for occupants.
Course Objectives:
Upon successful completion of this course participants will be able to:
- describe the common functions of gasketing, door bottoms, and thresholds on an opening
- find smoke infiltration requirements in NFPA101 and IBC and list general guidelines for fire door assemblies as they apply to gasketing, door bottoms, and thresholds
- list code mandates, accessibility requirements, and other conditions that would affect gasketing, door bottom, and threshold choices
- choose the appropriate gasketing, door bottom, and threshold material that would best meet code requirements and conditions at the opening

Course Number: PMI923 / PMD20066 (Distance Learning)
Course Name: **Safe, Stylish, & Accessible: Solving Challenges with Interior Sliding Doors**
Length: 1 HSW Continuing Education Hour
Course Description:
This course discusses how once basic interior sliding door systems have evolved into a sophisticated solution for a range of commercial spaces with their ability to attenuate sound, improve wayfinding, comply with ADA requirements and defend against fire. It will explore new acoustic perimeter door sealing methods, accessibility operating systems and fire-protective offerings. Additionally, it will address how to solve common wayfinding, privacy and clearance challenges in commercial spaces without compromising aesthetics.
Course Objectives:
Upon successful completion of this course participants will be able to:
- analyze how interior sliding door systems have progressed over the past two decades
- describe the main innovations in interior sliding door systems and their role in providing privacy, accessibility, and fire and life safety
- explain how the latest privacy laws and standards, ADA door guidelines, and fire-rated requirements impact design
- specify opening solutions to common fire-safety, daylighting, and occupant accessibility challenges

Course Number: SPI002
Course Name: **Tools for Excellence: Communication & Collaboration**
Length: 1 HSW Continuing Education Hour
Course Description:
Project collaboration doesn't work well when there is little or no communication. When preferences, standards, and communication procedures aren't established prior to the start of a project, the security and life safety provided by the building's openings are risk.
In this course we will touch on just some of the hardware details needed for openings along with the important information that needs to be shared, with your team and specification writer. We talk about the importance of communicating changes to openings as the project develops and we'll describe how even small changes can slow down or bust the budget of a project.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list codes and multiple factors that affect opening hardware choices
- ask the right questions to be able to document the security and safety needs of the opening and hardware wants of the owner
- describe why it is important to establish owner standards and preferences
- explain the importance of continuous communication between all parties working on the project to be sure codes and standards are met, and the security and safety of the occupants is not compromised

Course Number: SPI20007
Course Name: **Door Hardware Punch List – Creating a Better Experience**
Length: 1 HSW Continuing Education Hour
Course Description:
Project changes happen all the time so maintaining records of those changes is critical to your project running smoothly. With multiple pieces of hardware on each of the many openings in a building there's a lot to check to be sure each opening's hardware is correct and is operating appropriately. In this course we will discuss what to look for during a project to help you keep your punch list to a minimum. We will give examples of common hardware issues that get overlooked and talk about specific items to look for on fire rated and access-controlled openings. We will also review what to look for when you are near the end of the project and create your punch list.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list codes and project information that is critical to getting hardware right the first time
- describe frame, door, and hardware factors that should be checked on fire rated openings
- assess the operation of an access controlled opening for proper function
- generate an all inclusive hardware punch list to ensure proper aesthetics, function, and code compliance of each opening

Course Number: SPI720 / SPD20071 (Distance Learning)
Course Name: **Door Hardware Specifications: The Who, What, & I Don't Knows for Creating a Hardware Specification**
Length: 1 HSW Continuing Education Hour
Course Description:
This course will give you the information needed to properly develop hardware sets and the door hardware specification. We will explain why a door hardware set is needed and/or how it's used, and who needs to be involved in the process to make sure all information is provided and coordinated. You will gain the knowledge to allow you to proactively prepare early for door hardware and know what you're getting in your specification.
Course Objectives:
Upon successful completion of this course participants will be able to:
- include the necessary people in appropriate meetings to help minimize issues with code compliance, bidding, ordering and installation that occur when involved parties are not communicating
- incorporate specific details in documentation provided for the creation of a hardware specification to ensure an opening functions properly and meets code
- identify the "I don't knows" before a specification is written so specified hardware is safe and appropriate for the opening
- use a process to insure the people involved in creating the hardware specification and establishing the access control for the project all have the correct code information, opening details, and owner needs in an appropriate time frame

Course Number: SPI816 / SPD20058 (Distance Learning)
Course Name: **Collaboration to Maximize Your Project, Time, & Profits**
Length: 1 HSW Continuing Education Hour
Course Description:
Collaborating on Door Hardware doesn't sound like great table conversation! But it does make for a project that runs smoother with fewer delays and change orders, openings that meet building and life safety codes and function as needed the first time. Join us for this course where we'll discuss codes and guidelines that affect hardware. We'll also review the sections of a master specification and plans that are needed by the spec writer to provide code compliant hardware that meets the client's needs, the importance of keeping these sections updated, and the effects they can have on your project when they are not maintained and shared with key project people.
Course Objectives:
Upon successful completion of this course participants should be able to:
• discuss the importance of determining hardware preferences before the specification is written
• include all information needed for door hardware specifications: code information, documents, complete door schedule, and more
• provide effective documentation to enable your opening hardware specification to meet code and operate correctly
• improve communications to help prevent errors, time delays, code infractions, and cost overruns

Course Number: SPI913
Course Name: **Sustainability, Transparency, & Door Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
Whether you're designing a LEED certified building or not, every building created today includes sustainable features. Door & hardware products are not the ones that contribute the most to sustainability, but they do have an impact. This training will explain the new LEED v4 requirements, transparency requirements, such as EPDs and HPDs, and discuss how doors and hardware can contribute to LEED, as well as affect other sustainable areas within the building.
Course Objectives:
Upon successful completion of this course participants should be able to:
• define transparency, as it relates to sustainability, and understand some of the main initiatives, such as EPDs, HPDs and the Living Building Challenge
• state the new requirements for LEED v4 and how it differs from LEED 2009
• explain how door hardware contributes to LEED v4
• describe how door hardware can affect other areas of sustainability, such as energy savings

Course Number: VMG728
Course Name: **Multifamily Housing Codes and Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
Multifamily properties can present a few challenges for accessibility, code compliance, and security. Learn about hardware choices and codes that affect the common openings found in these projects in a fun interactive game format.
Course Objectives:
Upon successful completion of this course participants will be able to:
• discuss code requirements for fire rated openings in multifamily properties
• discuss accessibility standards that apply to multifamily properties
• list opening hardware that is best suited for multifamily property needs
• specify electronic products that make multifamily properties desirable, safe and accessible for residents

Course Number: VMG903
Course Name: **Hardware for Healthcare Openings**
Length: 1 HSW Continuing Education Hour
Course Description:
An interactive game format creates fun for participants as they learn about the difficult applications found in healthcare facilities. We'll cover mechanical and electrical opening solutions along with codes that affect healthcare hardware choices.
Course Objectives:
Upon successful completion of this course participants will be able to:
- discuss codes & standards that affect doors found in healthcare facilities
- describe good solutions for high usage Healthcare openings that will satisfy codes, standards, and security needs
- choose hardware that will protect the door, withstand the abuses of the hospital environment and still meet the hospital's opening needs and code requirements
- specify solutions for fire rated openings that will meet code requirements and the needs of the hospital staff

Course Number: VMG906
Course Name: **Security Beyond the Main Entrance – Hardware for Common K-12 Openings**
Length: 1 HSW Continuing Education Hour
Course Description:
School shootings always grab the headlines; however, they are not the only threats to our children. When designing a K-12 building, fire and severe weather events must be addressed along with codes that have specific requirements for opening types. Those codes drive hardware choices. Getting all the hardware specified to meet the codes is just one part of the opening equation. Getting those pieces to work together and function as needed for that opening is the other, especially when you must consider building codes, accessibility, and the needs of the school. There are multiple ways to make an opening function, but what are the best ways? This game formatted course will take you through the 6 most common openings found in K-12 schools and discuss appropriate hardware choices that will solve the school's needs for security and safety while still meeting code requirements.
Course Objectives:
Upon successful completion of this course participants will be able to:
- describe safety & security issues of the most common openings in K-12 schools
- discuss how codes affect the hardware choices for educational openings
- specify appropriate hardware for common openings to maintain safety & security and code compliance
- write a description of operation for an opening that will ensure the opening meets code and functions as needed

Course Number: VMI730
Course Name: **Multifamily Security**
Length: 1 HSW Continuing Education Hour
Course Description:
This course discusses factors that need to be considered and planned for when designing openings and developing a security plan for a multi-family property. It will also cover the common security problems found in multi-family properties and will offer solutions for those issues.
Course Objectives:
Upon successful completion of this course participants will be able to:
- describe key elements of a secure and safe multifamily property
- specify solutions to help multifamily properties maintain security and key control
- list codes that affect multifamily property openings
- choose code compliant door hardware products best suited for multifamily properties

Course Number: VMI732 /VM20067 (Distance Learning)
Course Name: **K-12 Designing for Layered Security**
Length: 1 HSW Continuing Education Hour
Course Description:
When designing or remodeling a school, security and safety should be at the forefront of discussions and design. It's important to understand the most common types of threats in educational facilities to create layers of security with the appropriate opening hardware to mitigate those threats. We'll cover all this and code compliant ways to achieve lockdown status when needed.
Course Objectives:
Upon successful completion of this course participants will be able to:
• describe the most common types of threats in K-12 schools and how to balance security for multiple threats
• explain layered security and list the five types of layers
• specify appropriate hardware for each of the five types of layers
• discuss the various options for lockdown and concerns about barricade devices

Course Number: VMI904 / VMD20063 (Distance Learning)
Course Name: **Healthcare Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
Participants attending this presentation will gain insight into the difficult applications found in the healthcare arena. Our discussion will highlight the various codes & standards that affect those doors as well as security consideration. In addition, we highlight the tremendous usage experienced in this 24/7 facility and the importance of simple solutions for typical problems. The solutions presented represent good practice and are not proprietary to specific manufacturers.
Course Objectives:
Upon successful completion of this course participants will be able to:
• describe hardware issues commonly found in high use public openings
• recognize differentiating product features that make a hardware product the "best" fit for both codes and the opening's needs
• list codes and standards that affect doors found in Healthcare facilities
• specify suitable hardware products for 3 typical openings frequently found throughout healthcare facilities

Course Number: VMI915
Course Name: **Common Healthcare Openings and Their Hardware Solutions**
Length: 1 HSW Continuing Education Hour
Course Description:
Gain insight into different types of openings found in the healthcare facilities. Discuss the various codes and standards that affect those openings and security issues that must be addressed when designing an opening.
Course Objectives:
Upon successful completion of this course participants will be able to:
• state areas of a healthcare facility that share common security and safety needs
• discuss code issues that influence hardware and access control choices for each group of openings
• discuss people and equipment issues that influence hardware and access control choices
• list products that will address the needs and issues of these groups while still adhering to codes and standards

Course Number: VMI916
Course Name: **Education Hardware Problems and Solutions**
Length: 1 HSW Continuing Education Hour
Course Description:
Participants attending this presentation will gain insight into the very difficult applications found in the education arena. Our discussion will highlight the various codes & standards that affect educational facility doors as well as security consideration. In addition, we highlight the tremendous usage experienced in these facilities and the importance of simple solutions for typical problems. The solutions presented represent good practice and are not proprietary to specific manufacturers. The intention of this presentation is to provide tried and true applications that will satisfy codes, standards, and security needs and provide consideration for the realities of maintenance staff.
Course Objectives:
Upon successful completion of this course participants will be able to:
• list the codes & standards that affect doors found in educational facilities
• describe common opening issues found in educational facilities
• specify opening hardware solutions that address common issues
• use best practices in specifying solutions for high usage education openings that will satisfy codes, standards, and security needs, while providing consideration for the realities of the maintenance staff

Allegion AIA CES Registered Webinars

Webinars are given throughout the year.
Have time constrictions kept you from getting to an instructor led course? Try taking one at your desk!
Check with your local representative for upcoming webinars and dates.

Course Number: CDW003
Course Name: **Codes Changes Affecting Classroom Doors**
Length: 1 HSW Continuing Education Hour
Course Description:
This webinar discusses codes and regulations that apply to accessible openings. We will cover opening requirements and how to choose door hardware to ensure your openings are compliant.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list the requirements of the model codes and accessibility standards that apply to classroom doors.
- describe how recent code changes and state legislation impact the types of security devices allowed for classrooms.
- explain the various risks faced by school districts, and the benefits of the all-hazards approach to security
- suggest options school districts should consider for securing classroom doors and talk about the retrofit security methods that may have unintended consequences.

Course Number: CDW20006
Course Name: **Panic Hardware – When Where & Why**
Length: 1 HSW Continuing Education Hour
Course Description:
When panic hardware is required by code, there are additional mandates that must be followed regarding the operation of the hardware. Fire doors add yet another layer of requirements for this hardware, and there are also exceptions that apply in some locations.
This webinar will explain when and where panic hardware is required, why it is used, and what other code requirements and exceptions need to be considered when selecting these devices. **Course Objectives:**
Upon successful completion of this course participants will be able to:
- understand the purpose of panic hardware in facilitating emergency egress by referencing historical events.
- become familiar with the locations where panic hardware is required by the model codes and standards, based on occupancy type and calculated occupant load.
- learn about the code requirements that apply to panic hardware, including requirements for fire doors, touchpad length, operable force, and required listings.
- know the code requirements for electrified panic hardware options, including delayed egress, controlled egress, and panic hardware used in conjunction with electromagnetic locks.

Course Number: CDW812
Course Name: **Codes & Door Hardware for Opening Accessibility**
Length: 1 HSW Continuing Education Hour
Course Description:
This webinar discusses codes and regulations that apply to accessible openings. We will cover opening requirements and how to choose door hardware to ensure your openings are compliant.
Course Objectives:
Upon successful completion of this course participants will be able to:
- refer to appropriate sections of building code documents that refer to requirements for accessible openings
- discuss opening dimensions and clearances of accessible openings according to the ADA
- specify the appropriate hardware for accessible openings
- identify opening and closing forces of accessible openings according to the ADA

Course Number: CDW813
Course Name: **Taming Tornado Alley**
Length: 1 HSW Continuing Education Hour
Course Description:
Learn how to keep building occupants safe in tornadoes – one of the deadliest natural phenomena in the U.S. This course addresses the key code provisions and testing standards that apply to Federal Emergency Management Agency (FEMA) community tornado safe rooms. Participants will discover the rigorous testing standards that tornado safe room doors must pass and will learn the key criteria to consider when specifying doors for life safety.
Course Objectives:
Upon successful completion of this course participants will be able to:
- explain the key code provisions and testing standards that apply to FEMA community tornado safe rooms
- discuss the performance criteria for doors installed in community tornado safe rooms
- describe the range of tornado-resistant doors available for community safe rooms, and the applications for which they are appropriate
- decide when it is appropriate to incorporate doors with glass lights in community tornado safe rooms

Course Number: CDW931
Course Name: **Decoded 1 – Intro to Accessibility Requirements**
Length: 1 HSW Continuing Education Hour
Course Description:
The first class of this 4-part webinar series introduces the codes and standards used by the door and hardware industry, and an overview of the accessibility standards for door openings. Accessibility requirements which impact the selection of doors and hardware include clear opening width, opening force, closing speed, the operation of door hardware, and requirements for automatic doors.
Course Objectives:
Upon successful completion of this course participants will be able to:
- identify the various codes and standards affecting door openings, and when to reference each one
- describe how the history of tragic fires shaped code development in the United States
- name the accessibility standards that apply to door openings, including door size, opening force, closing speed, thresholds, and operable hardware
- differentiate between the requirements which apply to manual doors vs. the requirements for automatic doors, including the referenced standards

Course Number: CDW932
Course Name: **Decoded 2 – Fire Door Assemblies**
Length: 1 HSW Continuing Education Hour
Course Description:
The second class of this 4-part webinar series covers the requirements of NFPA 80 – Standard for Fire Doors and Other Opening Protectives, which ensure that fire doors perform as designed if there is a fire. Requirements for fire door assemblies include positive-latching, door operation, minimal clearances for smoke control, and testing of the various components. The criteria and procedures for annual inspection of fire doors will also be discussed.
Course Objectives:
Upon successful completion of this course participants will be able to:
- discuss the standard for fire door assemblies – NFPA 80, and the sections which apply to swinging doors
- state when and where fire rated assemblies would be used, and describe the purpose of fire doors
- list basic rules for fire doors which ensure that fire doors will be closed and latched if there is a fire, with minimal smoke infiltration
- review the requirements for annual inspection of fire doors, including inspection criteria and procedures

Course Number: CDW933
Course Name: **Decoded 3 – Egress & Life Safety**
Length: 1 HSW Continuing Education Hour
Course Description:
This third class of a 4-part series addresses the egress requirements of NFPA 101 – The Life Safety Code and the International Building Code. Codes impacting egress door assemblies include the means of unlatching the door to allow egress, clear opening width and opening force, luminous egress path markings, and impact-resistance requirements for glazing.
Course Objectives:
Upon successful completion of this course participants will be able to:
- identify the occupancy classification or use group for a project and understand how that classification affects code requirements
- describe basic life safety concepts including the 3 parts of a means of egress, travel distance, common path of travel, area of refuge, clear width, door swing, and dead end corridors
- apply the means of egress requirements to door openings, to select the proper locking/latching hardware
- state additional requirements for egress doors, relative to clear width, opening force, and automatic operators

Course Number: CDW934
Course Name: **Decoded 4 – Codes for Electrified Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
The fourth class of this 4-part series allows participants to select the appropriate hardware for various door openings and learn about the code requirements for each. The seven basic sets of codes for electrified hardware are discussed: access control/free egress, delayed egress, controlled egress (I-2), elevator lobby egress, electromagnetic locks released by a sensor, electromagnetic locks released by door-mounted hardware, and stairwell reentry.
Course Objectives:
Upon successful completion of this course participants will be able to:
- describe the concepts of "fail safe" and "fail secure", which types of electrified hardware are available with each function, and when to specify them
- properly apply code requirements for fire door assemblies and positive latching to applications with electrified hardware
- differentiate between the two code sections relative to electromagnetic locks, and which release devices are required for each application
- identify delayed egress locks and the applications where doors may be locked in the direction of egress for additional security
- apply the stairwell reentry requirements to doors serving egress stairs, including the various options allowed by NFPA 101 – The Life Safety Code and the International Building Code

Course Number: PEW722
Course Name: **Essential of Access Control Webinar**
Length: 1 HSW Continuing Education Hour
Course Description:
This webinar explores electronic access control, its benefits, components, features and solutions for building openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
- list benefits to health, safety, and welfare provided by access control
- list the strengths and weaknesses of each type of credential used in access-controlled systems
- identify site and code conditions that determine electrified hardware choices
- select appropriate hardware to meet code, owner, and public conditions for specific applications

Course Number: PMW811
Course Name: **Hardware Fundamentals**
Length: 1 HSW Continuing Education Hour
Course Description:
This webinar discusses the function and application of opening hardware and how to correctly apply that hardware for specific applications such as fire doors, egress doors, and ADA compliant openings.
Course Objectives:
Upon successful completion of this course participants will be able to:
*   specify opening hardware that best fits the use of the opening, while remaining code compliant.
*   discuss the best applications for cylindrical and mortise locks, and auxiliary hardware
*   recognize appropriate applications for panic & fire exit hardware
*   describe the importance of key systems to occupant safety and owner needs

Course Number: PMW902
Course Name: **Privacy is Not Dead**
Length: 1 HSW Continuing Education Hour
Course Description:
With technology and social media so prevalent in our lives it appears that privacy is long gone. However, we still need and expect to have privacy in our built environments especially in spaces such as healthcare, schools, and offices where laws require privacy or where personal information is being discussed. Noise pollution can be a problem too. In this course we will discuss specialty doors and show case studies where those doors are used to help meet code and our privacy and noise reduction needs.
Course Objectives:
Upon successful completion of this course participants will be able to:
*   list the key laws that govern privacy and what impacts they have on facility design
*   discuss research findings showing why quiet spaces are essential to occupant well-being in hospitals, schools and offices
*   articulate the amount of sound attenuation needed to ensure private conversations
*   describe door options that ensure acoustic privacy while meeting your design vision

Course Number: SPW819
Course Name: **Collaboration to Maximize Your Project, Time, & Profit**
Length: 1 HSW Continuing Education Hour
Course Description:
Collaborating on Door Hardware doesn't sound like great table conversation! But it does make for a project that runs smoother with fewer delays and change orders, openings that meet building and life safety codes and function as needed the first time. Join us for this course where we'll discuss codes and guidelines that affect hardware. We'll also review the sections of a master specification and plans that are needed by the spec writer to provide code compliant hardware that meets the client's needs, the importance of keeping these sections updated, and the affects they can have on your project when they are not maintained and shared with key project people.
Course Objectives:
Upon successful completion of this course participants should be able to:
*   discuss the importance of determining hardware preferences before the specification is written
*   include all information needed for door hardware specifications: code information, documents, complete door schedule, and more
*   provide effective documentation to enable your opening hardware specification to meet code and operate correctly
*   improve communications to help prevent errors, time delays, code infractions, and cost overruns

Course Number: SPW914
Course Name: **Sustainability, Transparency, & Door Hardware**
Length: 1 HSW Continuing Education Hour
Course Description:
Whether you're designing a LEED certified building or not, every building created today includes sustainable features. Door & hardware products are not the ones that contribute the most to sustainability, but they do have an impact. This training will explain the new LEED v4 requirements, transparency requirements, such as EPDs and HPDs, and discuss how doors and hardware can contribute to LEED, as well as affect other sustainable areas within the building.
Course Objectives:
Upon successful completion of this course participants should be able to:
*   define transparency, as it relates to sustainability, and understand some of the main initiatives, such as EPDs, HPDs and the Living Building Challenge
*   state the new requirements for LEED v4 and how it differs from LEED 2009
*   explain how door hardware contributes to LEED v4
*   describe how door hardware can affect other areas of sustainability, such as energy savings

Course Number: SPW925
Course Name: **Door Hardware Specification: The Who, What, and I Don't Knows for Creating a Hardware Specification**
Length: 1 HSW Continuing Education Hour
Course Description:
This course will give you the information needed to properly develop hardware sets and the door hardware specification. We will explain why a door hardware set is needed and/or how it's used, and who needs to be involved in the process to make sure all information is provided and coordinated. You will gain the knowledge to allow you to proactively prepare early for door hardware and know what you're getting in your specification.
Course Objectives:
Upon successful completion of this course participants will be able to:
*   include the necessary people in appropriate meetings to help minimize issues with code compliance, bidding, ordering and installation that occur when involved parties are not communicating
*   incorporate specific details in documentation provided for the creation of a hardware specification to ensure an opening functions properly and meets code
*   identify the "I don't knows" before a specification is written so specified hardware is safe and appropriate for the opening
*   use a process to insure the people involved in creating the hardware specification and establishing the access control for the project all have the correct code information, opening details, and owner needs in an appropriate time frame

Course Number: VMW731
Course Name: **K-12 Designing for Layered Security**
Length: 1 HSW Continuing Education Hour
**Course Description:**
When designing or remodeling a school, security and safety should be at the forefront of discussions and design. It's important to understand the most common types of threats in educational facilities in order to create layers of security with the appropriate opening hardware to mitigate those threats. We'll cover all this and code compliant ways to achieve lockdown status when needed.
Course Objectives:
Upon successful completion of this course participants will be able to:
*   describe the most common types of threats in K-12 schools and how to balance security for multiple threats
*   explain layered security and list the five types of layers
*   specify appropriate hardware for each of the five types of layers
*   discuss the various options for lockdown and concerns about barricade devices

Allegion architectural hardware consulting services. We have more than 150 hardware consultants located across the nation and around the world who are all well-versed on local and national building codes; the unique needs of various types of facilities; and access control and egress requirements.
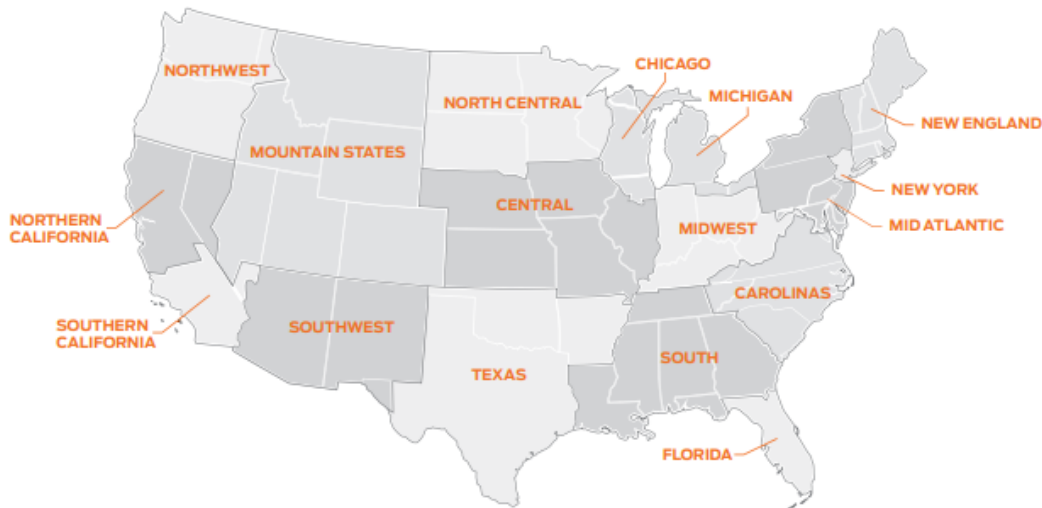
Some of the services we provide include:

- Complete hardware specifications, hardware sets and numerical door index
- Catalog cuts and wiring elevations
- Product substitution requests, application and product questions/RFIs, and the value engineering process
- Assistance with hardware submittals
- AIA-CES registered training on building codes, open architecture, electronic access control, vertical market topics and mechanical hardware
- Consulting on necessary building codes to ensure fire, life safety and accessibility requirements are met
- Review of building programming, product options and potential conflicts with security issues
- Conduct job site reviews, pre-installation meetings and post-installation inspections

About Allegion™

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries.

For more, visit www.allegion.com

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