## NEW ENGLAND BUILDING OFFICIALS EDUCATION ASSOCIATIONS 52<sup>nd</sup> CONFERENCE OCTOBER 1-3, 2018 PROGRAM SCHEDULE

# THE FOLLOWING PROGRAM IS SUBJECT TO MODIFICATIONS AND CANCELLATIONS WITHOUT NOTICE. CHECK WITH THE NEBOEA SITE, <u>www.neboea.org</u>, THE UMASS SITE AND THE WHITE BOARD AT THE INFORMATION DESK ON THE FIRST FLOOR FOR UPDATES.

### **MONDAY**

EXHIBITORS ARE OPEN ALL DAY - PLEASE VISIT AND SPEND TIME WITH OUR FRIENDS AND PARTNERS IN CODE ENFORCEMENT.

7:00 am – 1:00 pm	Con course	PRE at the Registration Table or any time thereafter, go to	E-REGISTRATION SIGN IN es on the 1 <sup>st</sup> Floor Concours AFTER 1:00 PM to Room 810 on the Eighth floor to p	e, Campus Center ick up your packet.				
7:00 am – 8:30 am	Audi torium (CCA)		Coffee and pastry					
8:00 am	CCA	Int Willia Joł	roduction and opening remarks: am A. Hanley II, NEBOEA Chairman nn Willnauer, Seminar Facilitator					
8:30 am – 3:30 pm	CCA	Please an	EXHIBITORS Please visit and spend time with our friends and partners in code enforcement.					
		CL	ASSES					
Time	Room	Class Title	Sponsor	Instructor	Course Number	Hrs.	ICC CEU's	
		Hydrogen Safety: What You Need to Know When Permitting Hydrogen Facilities	Pacific Northwest National Laboratory	Nick Barilo		1.5	.15	
8:30am- 10:00am 162-75 Intervent status and application of hydrogen fuel cells; identify fundamental safety considerations for hydrogen and further applications; identify the applicable codes and standards; and list the resources available to designers, AHJs and first responders for the deplo hydrogen fuel cells. <u>General Description:</u> Applicable building and fire codes - Hydrogen fuel cells are a key element of a broad portfolio for building a competitive sustainable clean energy economy. This session will discuss the current status of hydrogen fuel cells and the applicable safety features and constandards that enable their deployment. The resources to be discussed play a key role in reaching, educating and informing stakeholders who will help enable a broad set of fuel cell applications.								

		2015 IRC <sup>®</sup> Performing Residential Plumbing Inspections	International Code Council	John Farinelli		1.5	.15		
		Learning Objectives: Define basic terms related to a plumbir	ng inspection. Describe the plumbing	inspection process in a st	ep-by-step f	ashion.	Explain		
		concepts of specific requirements. Determine if a given residenti	ial dwelling complies with Chapters 25	through 33 of the 2015 Inte	ernational Re	sidentia	l Code®		
		(IRC <sup>®</sup> ).							
	163-C	Locate and apply plumbing code requirements. Complete inspec	tion checklists.						
		General Description: This course reviews the plumbing requirem	nents of the 2012 International Resider	Itial Code (IRC <sup>®</sup> ). The details	s provided wi	II enhan	ice		
		your understanding of the plumbing portion of the IRC. It covers the m	diendis and methods of installation as	lumbing inspections. You wi	ill also discus	seminar			
		portions of a residential plan. During this training participants wi	ill experience lecture, hear relevant exa	amples, and participate in g	roup discussi	ons pert	aining		
		to a residential plumbing inspection. Participants will also partici	ipate in activities that involve a checklis	st for performing residential	plumbing in	spectior	is.		
		Commercial Air Barriers (Part 1)	Mass Save (c/o PSD & Leidos)	Mike DeWein		1.5	.15		
		Learning Objectives: The learning objectives of this course are t	o understand 2015 IECC code requirem	nents for air barriers, types of	of air barrier	systems	s, how		
		to successfully install of an efficient air barrier, and how to verify air barrier system continuity during plan review and field inspections.							
	165-69	General Description: This course will cover Massachusetts 9th E	Edition energy code requirements for c	ommercial building air barri	ers, including	; those i	n		
		ASHRAE 90.1-2013 and the 2015 IECC. The course will clarify the	se requirements for better specificatio	n by designers and easier re	view by code	enforce	ement		
officials. The presenter will also discuss design and application of code-compliant air barrier systems and will also provide tips on how to review con details for air barrier continuity and how to inspect them in the field									
		details for air parrier continuity and now to inspect them in the r		Matthow "Matt" Huntor		,			
		Proposals and Discussion	American Wood Council	BCO		1.5	.15		
		Learning Objectives: 1. Identify the make-up of the TWB Ad Hor	c Committee and the process used to re	each consensus on propose	d code chang	les.			
		2. Recognize how the new types of construction compare with	existing types of construction in the In	ternational Building Code a	nd specify t	ne inher	ent		
		differences and conservative approaches the new types have.							
	168-72	3. Understand the process by which the allowable heights, areas	s, and number of stories permitted for	the proposed mass timber t	types of cons	truction	were		
		developed and will be able to utilize the information for building	design.						
		4. State the fire resistance requirements for mass timber buildin	ig elements. Further, they will be able	to distinguish when and whe	ere non-com	bustible			
		General Description: 2018 Group A code development process.	The intensive research performed by t	he Committee will be prese	nted in addit	ion to th	he		
		resulting proposals, developed by Committee consensus and sub	omitted to the ICC Code Development I	Process. The changes were s	ubmitted to	ICC in	-		
		accordance with the January 8, 2018 deadline and will be consid	ered during Committee Action Hearing	s from April 15 – 25, 2018					
		Engineered wood products installation	Weyerhaeuser - Trus Joist	Boh McCue / Craig Smith		15	15		
			Engineered wood Products			1.5	.15		
	474 70	Learning Objectives: Participants will learn about the latest prod	ducts and uses for Manufactured Woo	d products in residential and	d light comm	ercial			
	1/4-/6	applications in floors, roots, and wall construction.	ials on how manufactured wood produ	cts can haln moat the intent	t of the 2015	codo			
		Installation design properties software calculations do's and do	on'ts. Class will cover typical floor and r	roof installation code requi	rements for t	all walls	snow		
		loads, reading software calculations and substitution of products	s	oor mistanation, coue requi			, 5110 W		
10:00am-	CCA		DDEAK						
10:30am			BREAK	Γ					
		Introduction to the Structural Building Component Industry: A	SBCA - Northeast	John Goodrich		1.5	.15		
		Metal Plate Connected Wood Truss Inspection Checklist				<u> </u>			
10:30am-	162 75	Learning Objectives: This presentation is ideal for professionals s	seeking knowledge of truss constructio	on and installation procedure	es. ng bost prost	ticos for			
12:00pm	102-75	bandling installing and bracing metal plate connected wood true	ses are all addressed. Also covered is t	the design software used in	truss designs	illustra	ating		
		how trusses are affected by changes in loads and other parameter	ers. This presentation also discusses wa	avs of increasing the energy	efficiency re	auireme	ents of		
		the building envelope within the context of the requirements of	the 2015 International Residential Cod	le (IRC) and International En	ergy Conserv	ation Co	ode		

		(IECC) for ceiling insulation and truss heel heights.								
		2015 IRC <sup>®</sup> Performing Residential Plumbing Inspections (continued)	International Code Council	John Farinelli		1.5	.15			
	163-C	<u>concepts of specific requirements.</u> Determine if a given residential dwelling complies with Chapters 25 through 33 of the 2015 International Residential Code <sup>®</sup> (IRC <sup>®</sup> ). Locate and apply plumbing code requirements. Complete inspection checklists. <u>General Description:</u> This course reviews the plumbing requirements of the 2012 International Residential Code (IRC <sup>®</sup> ). The details provided will enhance your understanding of the plumbing terminology, equipment, materials and methods of installation as related to residential construction. This seminar concentrates on the plumbing portion of the IRC. It covers the minimum requirements for residential plumbing inspections. You will also discuss major portions of a residential plan. During this training participants will experience lecture, hear relevant examples, and participate in group discussions pertaining to a residential plumbing inspection. Participants will also participate in activities that involve a checklist for performing residential plumbing inspections.								
		Commercial Air Barriers (Part 2)	Mass Save (c/o PSD & Leidos)	Mike DeWein		1.5	.15			
	165-69 Learning Objectives: The learning objectives of this course are to understand 2015 IECC code requirements for air barriers, types of air barrier system to successfully install of an efficient air barrier, and how to verify air barrier system continuity during plan review and field inspections. <u>General Description</u> : This course will cover Massachusetts 9th Edition energy code requirements for commercial building air barriers, including those ASHRAE 90.1-2013 and the 2015 IECC. The course will clarify these requirements for better specification by designers and easier review by code enfor officials. The presenter will also discuss design and application of code-compliant air barrier systems and will also provide tips on how to review const details for air barrier continuity and how to inspect them in the field									
		2015 IRC Wall Construction- Prescriptive Design	MiTek-US Builder Prod. Div. USP Structural Connect.	Randall Holgate		1.5	.15			
	168-72	<u>Learning Objectives:</u> 1. Determine lateral Load design criteria 2 Bracing methods 5. Minimum required bracing <u>General Description:</u> Understand IRC 2015 bracing requirement	. How Load travels thru a House. 3. Wa	ll Bracing: Braced Lines and es and discussion.	Braced wall p	oanels 4	. IRC			
		Foam Plastic Insulation and the Codes (1)	H C Fennell Consulting, LLC	Henri Fennell, CSI/CDT		1.5	.15			
	<ul> <li>Learning Objectives: Participants will be able to identify the most common code violations encountered in typical foam installations. Participants will be able to determine if a foam installation should be considered a residential or a commercial installation. Participants will be able to determine when thermal or ignition barriers and/or methods are required to protect foamed plastic products. Participants will be able to use submittals, ESRs, and labeling to determine if a product has approvals for specific project applications. General Description: The recent growth in the use of polyurethane foam insulation and changes in the related codes and standards have created th provide designers, installers, code officials, and other industry members with an update on the new requirements for projects that include foam plast insulation. Code provisions discussed include requirements for fire protection in attics, basements and crawl spaces, rim joists, roof assemblies, me system components, as well as requirements for less well-known building assemblies and systems. The presentation includes examples from project demonstrate the requirements for various building types and building locations.</li> </ul>									
12:00 pm- 1:00 p.m.	CCA	Buffet Lunch – Pleas	se remember to have your lunch ticket	with you!!!						
1:00 pm – 2:30 pm	162-75	Accessibility Update (part 1)	United Spinal Association- Accessibility Services	Dominic Marinelli		1.5	.15			

		<u>Learning Objectives:</u> Understand problem application areas of s accessibility requirements - Understand basis of accessibility cor <u>General Description:</u> This presentation reviewed by the Massac (521 CMR) for commercial and residential occupancies. the 2010 ADA Standards will also be discussed.	tate accessibility requirements - Under nplaints of cereal plaintiffs, and other g husetts Architectural Access Board (M/ Differences between 521 CMR and the	stand key differences betwe overnment agencies. AAB) will focus on the states Federal Fair Housing Act Ad	een state and accessibility ccessibility G	federal require uideline	ements s, and			
		2015 IRC Performing Residential Mechanical Inspections	International Code Council	John Farinelli		1.5	.15			
	163 C	163 C 163 C 163 C 163 C 164 Concepts of specific requirements. Determine if a given residential dwelling complies with the 2015 IRC. Locate and apply mechanical code requirements. 163 C 163 C 164 Complete inspection checklists. <u>General Description:</u> This seminar will focus on the key changes from the 2015 International Residential Code <sup>®</sup> (IRC <sup>®</sup> ). The details provided will enhance understanding of mechanical terminology, equipment, materials and methods of installation as related to residential construction. This seminar concentr on the mechanical portion of the IRC along with the appropriate portions of the International Fuel Gas Code and the International Energy Conservation Concerts the minimum requirements for residential mechanical inspections. You will also discuss major portions of a residential plan. This seminar will provide information so that the residential mechanical inspector can perform inspection tasks that are consistent with the requirements in the 2015 IRC. 9th Edition Energy Code: Ton Ten Things You Really Need to								
		9th Edition Energy Code: Top Ten Things You Really Need to Know	Mass Save (c/o PSD and Leidos)	Mike DeWein		1.5	.15			
<ul> <li>Learning Objectives: The learning objectives of this course are to understand key requirements and "hot" topics in the 2015 IECC and the 9th Ed MA Code. These 10 things include documentation requirements, solar-ready provisions, COMcheck, air barrier requirements, commissioning required additional efficiency measures among a few other topics.</li> <li>General Description: This course will cover Massachusetts 9th Edition energy code requirements for commercial building air barriers, including to 9th Edition of the Massachusetts State Building Code (780 CMR) became mandatory on January 1, 2018, following a concurrency period from Oct December 31, 2017. This course, intended for code enforcement officials, contractors, and design professionals, will address 9th Edition updates, between the 2012 and 2015 IECC, and the "Top 10" commercial energy code compliance issues. The biggest changes that came with the 9th Edition requirement for COMcheck documentation for all commercial new construction projects, and the requirement for most commercial new construction projects, and the requirement for most commercial new construction projects for air barrier construction, mechanical and lighting sy</li> </ul>							if the ents, n The 20 to ges ere the designs			
		MII002 How to Inspect Metal Connector Plated Wood Trusses	MiTek-US Builder Products Div. USP Structural Cone.	Randall Holgate		1.5	.15			
	168-72	<u>Learning Objectives:</u> 1. Understand specification requirements design drawings and how to use them. 3. Understand the truss of alterations <u>General Description:</u> Identifying accurate truss locations via acc material indicating improper installation. How to recognize prop	of metal plated roof and floor trusses. design provisions of the I Codes, NDS an companying drawings. How to determine per bracing.	2.Learn to read basic truss p id ANSI/TPI. 4. Discussion of ne improper locations. Obs	lacement pla truss repairs ervations of	ins and is and de excess	truss sign			
		Foam Plastic Insulation and the Codes (2)	H C Fennell Consulting, LLC	Henri Fennell, CSI/CDT		1.5	.15			
	174 -76	Learning Objectives: Participants will be able to identify the most common code violations encountered in typical foam installations. Participants will be able to determine if a foam installation should be considered a residential or a commercial installation. Participants will be able to determine when thermal or ignition barriers and/or methods are required to protect foamed plastic products. Participants will be able to use submittals, ESRs, and labeling to determine if a product has approvals for specific project applications. <u>General Description:</u> The recent growth in the use of polyurethane foam insulation and changes in the related codes and standards have created the need to provide designers, installers, code officials, and other industry members with an update on the new requirements for projects that include foam plastic insulation. Code provisions discussed include requirements for fire protection in attics, basements and crawl spaces, rim joists, roof assemblies, mechanical system components, as well as requirements for less well-known building assemblies and systems. The presentation includes examples from projects that demonstrate the requirements for various building types and building locations.								

2:30 pm- 3:00 pm	CCA		BREAK						
		Accessibility Update (part 2)	United Spinal Association- Accessibility Services	Dominic Marinelli		1.5	.15		
	162-75	<u>earning Objectives</u> : Understand problem application areas of state accessibility requirements - Understand key differences between state and federal accessibility requirements - Understand basis of accessibility complaints of cereal plaintiffs, and other government agencies. <u>General Description</u> : This presentation reviewed by the Massachusetts Architectural Access Board (MAAB) will focus on the states accessibility requirements (521 CMR) for commercial and residential occupancies. Differences between 521 CMR and the Federal Fair Housing Act Accessibility Guidelines, and the 2010 ADA Standards will also be discussed.							
		2015 IRC Performing Residential Mechanical Inspections (continued)	International Code Council	John Farinelli		1.5	.15		
	163 C	<ul> <li><u>sarning Objectives:</u> Define basic terms related to a mechanical inspection. Describe the mechanical inspection process in a step-by-step fashion. Explain oncepts of specific requirements. Determine if a given residential dwelling complies with the 2015 IRC. Locate and apply mechanical code requirements. omplete inspection checklists.</li> <li><u>eneral Description:</u> This seminar will focus on the key changes from the 2015 International Residential Code® (IRC®). The details provided will enhance your nderstanding of mechanical terminology, equipment, materials and methods of installation as related to residential construction. This seminar concentrates n the mechanical portion of the IRC along with the appropriate portions of the International Fuel Gas Code and the International Energy Conservation Code. covers the minimum requirements for residential mechanical inspections. You will also discuss major portions of a residential plan. This seminar will rovide information so that the residential mechanical inspector can perform inspection tasks that are consistent with the requirements in the 2015 IRC.</li> </ul>							
3:00 pm –		Inclined Pile Footing Technology – Innovations for Deck Construction	Pin Foundations – Diamond Pier	Mike Donoghue		1.5	.15		
4:30 pm	165-69	<u>Learning Objectives:</u> Presentation focuses on a code compliant and proven innovation for residential exterior deck footings. <u>General Description:</u> Foundation basics, inclined pile footing design and engineering, inclined pile footing applications including commercial and residential uses. The path to code compliance for the inclined pile footing innovations including rigorous ICC ES testing performance submittals with an overview of the continuous work to remain compliant with evolving building codes and installation and inspections.							
		USP-301 Introduction to Wind Design in Residential Construction	MiTek-US Builder Prod. Div. USP Structural Connect.	Randall Holgate		1.5	.15		
	168-72	Learning Objectives: 1. Review wind load & terminology and concepts. 2. Overview of how wind forces are applied (Load Path) 3. Identify common wood frame failure modes. 4. Engineered and proscriptive design requirements General Description: How wind forces affect wood framed structures, use of devices to secure the structure, view wind damaged buildings and discussion							
		Foam Plastic Insulation and the Codes (3)	H C Fennell Consulting, LLC	Henri Fennell, CSI/CDT		1.5	.15		
	174-76	Foam Plastic Insulation and the Codes (3)H C Fennell Consulting, LLCHenri Fennell, CSI/CDT1.5.15ning Objectives: ricipants will be able to identify the most common code violations encountered in typical foam installations. icipants will be able to determine if a foam installation should be considered a residential or a commercial installation. icipants will be able to determine when thermal or ignition barriers and/or methods are required to protect foamed plastic products. icipants20 will be able to use submittals, ESRs, and labeling to determine if a product has approvals for specific project applications. eral Description: The recent growth in the use of polyurethane foam insulation and changes in the related codes and standards have created the need to vide designers, installers, code officials, and other industry members with an update on the new requirements for projects that include foam plastic lation. Code provisions discussed include requirements for fire protection in attics, basements and crawl spaces, rim joists, roof assemblies, mechanical em components, as well as requirements for less well-known building assemblies and systems. The presentation includes examples from projects that postrate the requirements for various building types and building locations							

<u>4:30 pm – Adjourn for the day.</u>

### **TUESDAY**

### BREAKFAST 7:00 - 8:15 AM –CCA 1<sup>st</sup> Floor. Please remember to have your Breakfast Ticket with you!!!

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Time	Room	Class Title	Sponsor	Instructor	Course Number	Hrs.	ICC CEU's			
		Shakes & Shingles-Review ICC Requirements for Grades of Shakes & Shingles and Roof & Sidewall Installation	Cedar Shake & Shingle Bureau	Tony Bonura		1.5	.15			
	162-75	<u>earning Objectives:</u> Identifying the different types & grades of shakes & shingles and how this relates to installation and code conformance <u>General Description:</u> Clarification of the various grades of shakes & shingles and how grade characteristics relate to installation exposures to conform with wall and roof installation code criteria in 2015 IRC Sections R703.6, R905.7, R905.8 &2015 and IBC Sections 1507.8.5 & 1507.9.6. Technical publications pertaining to roof and wall installation, will be distributed to all who attend.								
		2015 IRC <sup>®</sup> Performing Residential Building Inspections	International Code Council	John Farinelli		1.5	.15			
	163C	Learning Objectives: Upon completion, participants will be better able to: Explain the purpose of building foundation and final inspections. Describe the building inspection process in a step-by-step fashion. Determine if a given one- or two-family dwelling complies with the 2015 IRC. Complete inspection checklists. <u>General Description:</u> This seminar provides building inspectors with fundamental knowledge necessary to administer and enforce applicable code requirements from the 2015 IRC, which apply to foundation and final residential building inspection. Specifically, the seminar provides participants with checklists that enable those performing foundation and final residential building inspections to determine whether the materials, design, construction, installation and location of building components comply with the code.								
10:00 am		Introduction to the Structural Building Component Industry: A Metal Plate Connected Wood Truss Inspection Checklist	SBCA - Northeast	John Goodrich		1.5	.15			
	<ul> <li>165-69</li> <li>165-69</li></ul>									
		Fire-Retardant Treated Wood and the International Building Code	Hoover Treated Wood Products Inc.	James P. Gogolski		1.5	.15			
	168-72	<u>Learning Objectives:</u> What is fire-retardant treated wood, IBC 2 allowed in the building code	303.2 Why it is allowed in noncombust	ible construction What is a	proper label	Where	it is			

		<u>General Description:</u> Fire-retardant treated wood technical char buildings) Also uses in stages, platforms, kiosks in shopping malls	racteristics and building code applications Details of 1 and 2-hour fire-rated wall	ons Examples of use in Type Is will be covered	e I, II and III (	pedesta	I		
		Concrete - Back to basics (same program presented twice)	Tilcon Connecticut Inc.	Kevin Miller		1.5	.15		
	174-76	<u>Learning Objectives:</u> How concrete is designed and produced, so <u>General Description:</u> Informative session on concrete basics sta followed by an open discussion on the need for residential testin	trength classes, admixtures, placement rting with developing concrete mix des g and documentation.	t considerations, site inspec signs, jobsite problems, pos	tions. t placement	defects			
9:00 am – 12:00 pm	177	MA Edu	cational Board Committee Meeting						
10:00 am– 10:30am	CCA		BREAK						
		Industry Efforts to Standardize the Treatment of Structural Fire Protection Variances	Simpson Gumpertz & Heger, Inc.	Kevin J. LaMalva		1.5	.15		
	162-75	62-75 Learning Objectives: 1. Understand the key differences between standard fire resistance design and structural fire engineering 2. Learn about the treatr of fire effects as a structural load 3. Understand new industry consensus on what constitutes a satisfactory variance <u>General Description</u> : In cases where an alternative to the prescriptive design method for structural fire protection is sought, the U.S. has lacked an indu consensus on the matter until recently. ASCE/SEI 7 is the parent standard for structural engineering for the International Building Code (IBC), and now contains guidance that addresses structural fire protection variances. These new provisions will be bolstered by the soon-to-be-released ASCE/SEI Manu Practice on the subject.							
		2015 IRC <sup>®</sup> Performing Residential Building Inspections	International Code Council	John Farinelli		1.5	.15		
10:30am- 12:00pm	163C	Learning Objectives: Upon completion, participants will be better able to: Explain the purpose of building foundation and final inspections. Describe the building inspection process in a step-by-step fashion. Determine if a given one- or two-family dwelling complies with the 2015 IRC. Complete inspection checklists. <u>General Description:</u> This seminar provides building inspectors with fundamental knowledge necessary to administer and enforce applicable code requirements from the 2015 IRC, which apply to foundation and final residential building inspection. Specifically, the seminar provides participants with checklists that enable those performing foundation and final residential building inspections to determine whether the materials design construction installation and location of building components comply with the code							
12.00011		Are You Ready for Solar-Ready? And Other Energy Code Updates (Residential)	Mass Save (c/o PSD)	Robert de Sousa		1.5	.15		
	165-69	Learning Objectives: The learning objectives of this course are to understand the intent behind solar-ready provisions, scope of solar-ready requirements, important exceptions to these provisions, construction documentation requirements to show solar-readiness, and learn about some other significant code changes that happened between the 2012 IECC & 2015 IECC. (Learning objectives and description for 1a is given in another form) General Description: This module will review new code provisions in the Massachusetts 9th Edition and significant changes between the 2012 and 2015 IECC. The first portion of the program covers new solar-ready provisions including scope, solar-ready rooftop area requirements, exceptions, roof orientations, documentation, interconnection pathways and roof loads, and electrical requirements. Next the program will cover changes to duct insulation, hot water piping, duct leakage, whole-house mechanical ventilation and related MA amendments. Finally, the presenter will discuss the Energy Rating Index (EBI) compliance nath and the 2015 Stretch Code							
	168-72	Understanding Spray Foam and How It Relates to Code	Spray Foam Distributors of New England	Jeff Bailey/Joe Drapeau/George Spanos		1.5	.15		
	100-72	Learning Objectives: The training will cover the properties of Spray Foam Insulation and how it relates to code in regards to Ignition and Thermal Barriers as well as the approved coatings/coverings. It also will explain the relation of the vapor and air barrier qualities and how that relates to Code. There will be a section going over good Foam versus Bad foam and how to identify the difference							

		General Description: The training will cover the properties of Sp	General Description: The training will cover the properties of Spray Foam Insulation and how it relates to code in regards to Ignition and Thermal Barriers as										
		well as the approved coatings/coverings. It also will explain the r	elation of the vapor and air barrier qua	alities and how that relates	to Code. The	re will b	be a						
		section going over good Foam versus Bad foam and how to ident	tify the difference.										
				Walter Schneider,									
		Disaster Response and the Building Professional	Centre Region Code Administration	Ph.D., PE, CFO, MCP,		1.5	.15						
				CBO									
		Learning Objectives: 1) Understand the type of extreme events	that can affect a building after a natur	al disaster									
	174- 76	2) Understand how the building professional assist in the mitigat	ion of the impact of extreme events fo	r occupants and first respo	nders								
		3) Recognize basic structural failure types that can happen after	a natural disaster										
		4) Recognize different communication methods used to mark bu	ildings in adverse conditions to warn re	esponders of potential dang	gers								
		inside the structure											
		General Description: The presentation will introduce the building	ng professional to the potential damage	e that can occur as a result	of an extrem	e event	on a						
		building and how the building professional can positively affect t	he situation.										
12:00 pm – 1:00 pm	CCA	BUFFET LUNCH – Pleas	se remember to have your Lunch Ticke	t with you!!!									
2100 p		Strategies & Techniques for Building Code Enforcement	Self	Robert F. Camacho		15	15						
		Learning Objectives: Demonstrate the practical application & in	anact various Hard & Soft Skills have or	Building Code Enforcemer	nt in the real	world	.15						
		voiding Administrative Disasters & the importance of having a "Policy & Procedure" in place.											
	162-75	General Description: Identifies & Analyzes the various Discipline	Skills that are the basis for developing	the Strategies & Techniqu	es required t	0							
	101 / 0	professionally and affectively enforce the locally adopted buildin	g codes. Le. Legal concepts. Leadershi	o. Management Communic	ating etc. Loc	oking at	case						
		studies of what went wrong & why. Using the Model of "Four Ph	ases of Public Safety in the Built Enviro	nment" to bring it all toget	her. Addition	al Info	will be						
		posted on N.E.B.O.E.A. Web Page											
		2015 IRC <sup>®</sup> Performing Residential Building Inspections	International Code Council	John Farinelli		1.5	.15						
		Learning Objectives: Upon completion participants will be bet	ter able to: Explain the nurnose of h	uilding foundation and fina	linspections		iha tha						
		building inspection process in a step-by-step fashion. Determine	he if a given one- or two-family dwell	ing complies with the 201	5 IRC Comp	lete ins	nection						
	163C	checklists.					pection						
		General Description: This seminar provides building inspec	tors with fundamental knowledge no	ecessary to administer an	d enforce a	oplicabl	e code						
		requirements from the 2015 IRC, which apply to foundation and	final residential building inspection.	····· , ··· ·· ·· ·									
1:00 pm –		Specifically, the seminar provides participants with checklists that	at enable those performing foundation	and final residential buildin	g inspection	s to det	ermine						
2:30 pm		whether the materials, design, construction, installation and loca	ation of building components comply w	vith the code.									
		Duct Sealing, Testing and Design	Mass Save (c/o PSD)	Robert de Sousa		1.5	.15						
		Learning Objectives: The learning objectives are to what Manua	D is understanding advantages of pr	oper duct design, code regu	uirements rel	ated to	duct						
		design and leakage documentation that can beln in verifying du	t testing critical areas to be sealed in	a duct system manufacture	ar's installati	on instr	utions						
	165.60	and how to conduct field inspections to verify that duct installati	on complies with the code	a duct system, manufacture		on moti	utions						
	102-09	General Description: According to the 2015-16 study on single-f	family residential homes in Massachuse	etts over 90% of all homes	studied had	all or no	ortion						
		of duct systems in unconditioned space which means all these ho	omes would require duct testing and p	ortions outside conditioned	l space shoul	d be							
		insulated. This course discusses code requirements for duct testi	ng, prescriptive duct leakage requirem	ents. duct insulation and se	aling require	ements.	With a						
		discussion on best practices in duct insulation, the presenter will	discuss Manual D which is a process to	o design duct systems and r	equired by c	ode.							
			Tileon Connectiont Inc.	Kavin Miller	_,,	1 Г	1 Г						
		Concrete - Back to basics (same program presented twice)	flicon connecticut inc.			1.5	.12						
	168-72	Learning Objectives: How concrete is designed and produced, since the second se	trength classes, admixtures, placement	t considerations, site inspec	tions.								
		General Description: Informative session on concrete basics sta	rting with developing concrete mix des	signs, jobsite problems, pos	t placement	defects							
		followed by an open discussion on the need for residential testin	g and documentation.		followed by an open discussion on the need for residential testing and documentation.								

		Multi-Residential Structures – Study of Initial Cost and Performance	Centre Region Code Administration	Walter Schneider, Ph.D., PE, CFO, MCP, CBO		1.5	.15			
2.20	174-76	<u>earning Objectives</u> : 1) Compare and contrast the typical construction configurations with regard to cost, durability, and performance. ) Be educated about non-combustible versus combustible construction in multi-family residential construction. <u>ieneral Description</u> : The presenter will educate on the typical construction types and configurations commonly used in multi-family residential onstruction and their relative performance initially and over time. An explanation will be made of the construction cost model, which accurately evaluates he relative construction cost of a multi-family building using different materials including wood, steel, masonry, precast and ICF. This new study addresses he initial cost of construction a common multi-family residential building based on the 2015 IBC.								
2:30 pm – 3:00 pm	CCA		BREAK		ſ					
		Strategies & Techniques for Building Code Enforcement	Self	Robert F. Camacho		1.5	.15			
3:00 pm –	162-75	<u>earning Objectives:</u> Demonstrate the practical application & impact various Hard & Soft Skills have on Building Code Enforcement in the real world. Avoiding Administrative Disasters & the importance of having a "Policy & Procedure" in place. <u>Seneral Description:</u> Identifies & Analyzes the various Discipline Skills that are the basis for developing the Strategies & Techniques required to professionally and affectively enforce the locally adopted building codes. I.e. Legal concepts, Leadership, Management Communicating etc. Looking at case studies of what went wrong & why. Using the Model of "Four Phases of Public Safety in the Built Environment" to bring it all together. Additional Info will be posted on N.E.B.O.E.A. Web Page.								
		2015 IRC <sup>®</sup> Performing Residential Building Inspections	International Code Council	John Farinelli		1.5	.15			
	163C	Learning Objectives: Upon completion, participants will be better able to: Explain the purpose of building foundation and final inspections. Describe the building inspection process in a step-by-step fashion. Determine if a given one- or two-family dwelling complies with the 2015 IRC. Complete inspection checklists. <u>General Description</u> : This seminar provides building inspectors with fundamental knowledge necessary to administer and enforce applicable code requirements from the 2015 IRC, which apply to foundation and final residential building inspection. Specifically, the seminar provides participants with checklists that enable those performing foundation and final residential building inspections to determine whether the materials, design, construction, installation and location of building components comply with the code.								
		Climate Change and Building Codes	OEDM/DCS/DAS	Doug Schanne		1.5	.15			
	165-69	<u>Learning Objectives:</u> Participants will be able to identify a scien codes, be able to describe how sections of the 2015 IRC, IBC and <u>General Description:</u> The debate on climate change whether it and what it means for building construction in the northeast. Th gradual changes in the building codes to address areas of extrem	tific view of climate change, be able to IECC address climate conditions in the is science or science fiction continues. is 90-minute program will discuss the s ne weather that affect the coastal and	explain the effects of clima Northeast The two main questions for cience behind the climate i the inland areas of New Eng	te on buildir code officia n the northe gland.	ng and b Is are wl ast and	uilding hat it is the			
		NFPA Fire and Life Safety Ecosystem	National Fire Protection Association	Kevin Carr		1.5	.15			
	168-72	168-72       Learning Objectives:       Provide an in-depth overview of the NFPA Fire and Life Safety Ecosystem.         General Description:       The NFPA Fire & Life Safety Ecosystem is made up of eight key components that play a critical role in fire,         life and electrical safety. As with any ecosystem, when all of the elements work together, the result is a fully         functioning system that benefits everyone								
	174-76	Existing electrical systems, equipment and other electrical requirements	Town of Salem, NH	Mike DiBartolomeo		1.5	.15			

		Learning Objectives: How to recognize existing code compliant electrical systems and equipment that were installed years ago and how to recognize electrical systems that were never code compliant. Other electrical requirements from related codes. Some codes and standards referred to include; NFPA 70 - NFPA - 72 - NFPA 101 - IBC - IEBC- IECC - IMC - IRC - A117.1 - NESC - ASTM General Description: Beginning with Knob and Tube Wiring and moving through the earliest wiring systems, methods that we see almost every day during our inspections. The beginning of Romex (non-metallic sheathed cable), bx (armored clad cable), mc (metal clad cable). Residential and commercial installations including acoustical ceiling as supports for wiring methods. This program is designed to be fast paced and very interactive.
4:45 pm- 5:30pm	177	New England Building Officials Education Committee Meeting

Adjourn to Amherst Room 10<sup>th</sup> floor for cocktails starting at 6:00 p.m. Social Hour starting at 6:30 p.m. Don't forget your ticket!!!

### WEDNESDAY

#### Course **Class Title** Time Sponsor Instructor Hrs. Room Number 8:30 am -William Nash I.C.C. 917 ICC Lap Top Test ??? I.C.C. 12:00 pm Govt. Relations Reg. Manager N.E. State of Connecticut. Division of **Building Code Administration and Enforcement** Judith R. Dicine 1.5 Criminal Justice Learning Objectives: 1. Understand that the duly empowered code official in the U.S. is a "governmental official" and, similarly to police, is bound to administer and enforce code in accordance with the U.S. Constitution and the applicable state constitution, including on matters of right of entry. 2. Know and understand the law generally concerning the authority and obligations of a code official to obtain code compliance through administration and 162-75 enforcement. 3. Recognize the orders available for building officials under the ICC International Building Code and review when and how each are used in enforcement. 4. Explain general procedure for referring a case to civil and criminal court and what occurs during criminal prosecution. General Description: This 180-minute educational session goes to the core of what safety code officials do in service of our communities daily - which is to keep the public safe through active code enforcement and administration. But what about the U.S. Constitution and an individual's rights to privacy and property? And what happens when an individual doesn't comply with an order to correct a violation? All actions by governmental officials must have a 8:30 amlawful basis. The public interest is only rightly served when both critical safeguards are met: constitutionality and code. 10:00am 2015 IBC Exit Systems International Code Council John Farinelli 1.5 Learning Objectives: Upon completion, participants will be better able to: Determine those means of egress components that are defined as exits. Identify where exit elements are required. Identify the specific exits established in the IBC. Understand the regulation of the exit discharge system. 163C General Description: This seminar focuses on IBC Chapter 10 means of egress components that are defined and regulated as "exits." These components, defined in Chapter 2, are considered as high-level elements that provide a considerable degree of occupant protection within the means of egress system. The exit discharge provisions will also be discussed. Specific topics include: Exterior exit doors at the level of exit discharge. Interior exit stairways and ramps. Exit passageways. Horizontal exits. Exterior exit stairways and ramps. Exit discharge. Robert de Sousa 1.5 165-69 **Residential Air Barriers & Insulation Installation** Mass Save (c/o PSD)

#### BREAKFAST 7:00 - 8:15 AM -CCA 1<sup>st</sup> Floor. Please remember to have your Breakfast Ticket with you!!!

ICC

CEU's

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		Learning Objectives: The learning objectives are to understand winsulation installation and learning how to verify air barrier and it objectives also include understanding code requirements for which ventilation strategies, and understanding documentation to verify <u>General Description</u> : The installation of a continuous air and the save money on utility bills; at the same time, important details a Installation criteria found in Table 402.4.1.1 with photos and grap penetrations, wall-to-ceiling transitions, rim joists, garage walls, meet code and manufacturer requirements will also be discussed relating to whole-house mechanical ventilation system requirements minimum design airflow rate, and how to verify installed airflow only, supply-only and balanced ventilation (including ERVs/HRVs)	Interference into reacting by predicted with the function of function of the function of function of the f							
		Navigating through Cold-Formed Steel Framing in the Codes	CFSEI - Adtek Engineering Inc.	Jeff Klaiman, P.E.		1.5	.15			
168-72 168-72 168-72 Learning Objectives: After attendance participants will be able to identify appropriate AISI Cold-Formed Steel (CFS) Standards for use with the codes, identify appropriate tolerances for installation, recognize roles and responsibilities of principals on a project, and describe CFS standard nomenclature required for specifying and building with CFS. General Description: Cold-Formed Steel framing (CFSF) is nothing new and has been used as interior partitions and curtain walls for decades. What is relatively new is the use of CFSF as the main load bearing element for structures. Hotels, dormitories, assisted living facilities, to name just a few building types, are commonly framed with CFS due to its high strength to weight ratio, design flexibility, and non-combustibility. Projects can go 10 stories + using CFSF as the main structural framing system. Presented by the Steel Framing Alliance, Cold-Formed Steel Engineers Institute and the American Iron and S Institute this program will provide you with the tools and resources necessary to conduct a CFS plan review, conduct an on-site inspection according to the ICC 2015 Codes. Know how to identify CFSF by the industry standard designators, the tolerances and the valuable resources available to assist you with task.							; Jing ing d Steel o the th your			
		Above Ceiling Inspections	4LEAF Inc.	Joseph Summers		1.5	.15			
	174-76 Learning Objectives: Identify key building elements that require inspections above the ceiling and review the code requirements and other standards should be referenced during the above ceiling inspection process. <u>General Description</u> : Will go over general items to look for in an above ceiling inspection prior to concealment. We will look at how all trades interact will look at some of the common issues that tend to be overlooked. This program will include gypsum board ceilings and acoustical drop-in ceilings.									
10:00am- 10:30 am	CCA		BREAK							
		Building Code Administration and Enforcement	State of Connecticut, Division of Criminal Justice	Judith R. Dicine		1.5	.15			
10:30am- 12:00 pm	162-75	Learning Objectives:       1. Understand that the duly empowered code official in the U.S. is a "governmental official" and, similarly to police, is bound to administer and enforce code in accordance with the U.S. Constitution and the applicable state constitution, including on matters of right of entry.       2.         Know and understand the law generally concerning the authority and obligations of a code official to obtain code compliance through administration and enforcement.       3. Recognize the orders available for building officials under the ICC International Building Code and review when and how each are used in enforcement.         162-75       General Description:       This 180-minute educational session goes to the core of what safety code officials do in service of our communities daily - which is to keep the public safe through active code enforcement and administration. But what about the U.S. Constitution and an individual's rights to privacy and property? And what happens when an individual doesn't comply with an order to correct a violation? All actions by governmental officials must have a								
	163C	2015 IBC Exit Systems	International Code Council	John Farinelli		1.5	.15			
		Learning Objectives: Upon completion, participants will be bet where exit elements are required. Identify the specific exits esta	ter able to: Determine those means of blished in the IBC. Understand the reg	egress components that ulation of the exit dischar	are defined as ge system.	exits. I	dentify			

		<u>General Description:</u> This seminar focuses on IBC Chapter 10 m defined in Chapter 2, are considered as high-level elements that The exit discharge provisions will also be discussed. Specific topi ramps. Exit passageways. Horizontal exits. Exterior exit stairways	eans of egress components that are de provide a considerable degree of occu cs include: Exterior exit doors at the le s and ramps. Exit discharge.	fined and regulated as "e pant protection within th evel of exit discharge. Inte	exits." These co e means of eg erior exit stair	ompone gress sys ways an	nts, tem. d				
		Ventilation for Tight Homes: Reducing Energy Waste, Improving IAQ (Part 2)	Mass Save (c/o PSD)	Robert de Sousa		1.5	.15				
<ul> <li>insulation installation and learning how to verify air barrier and insulation installation code compliance during plan review and field inspections. The objectives also include understanding code requirements for whole-house mechanical ventilation, understand pros and cons of different whole hour ventilation strategies, and understanding documentation to verify mechanical ventilation rates.</li> <li>General Description: The installation of a continuous air and thermal barrier is perhaps the best and most cost-effective way to reduce energy was save money on utility bills; at the same time, important details are often missed. This course will be framed around the 2015 IECC Air Barrier and Installation criteria found in Table 402.4.1.1 with photos and graphics to illustrate noncompliant and compliant installation of critical details like attipenetrations, wall-to-ceiling transitions, rim joists, garage walls, knee walls, and tubs and showers on exterior walls. Installing and inspecting insulation meet code and manufacturer requirements will also be discussed. The second part of the course will cover 2015 IECC, IRC, and Massachusetts amer relating to whole-house mechanical ventilation system requirements. This will include when whole-house ventilation is required, how to calculate t minimum design airflow rate, and how to verify installed airflow rates. The presenter will also provide an overview of different ventilation systems only, supply-only and balanced ventilation (including ERVs/HRVs) – along with pros and cons of each type of system.</li> </ul>											
		Navigating through Cold-Formed Steel Framing in the Codes	CFSEI - Adtek Engineering Inc.	Jeff Klaiman, P.E.		1.5	.15				
	168 -72	Learning Objectives: After attendance participants will be able to identify appropriate AISI Cold-Formed Steel (CFS) Standards for use with the codes, identify appropriate tolerances for installation, recognize roles and responsibilities of principals on a project, and describe CFS standard nomenclature required for specifying and building with CFS. <u>General Description</u> : Cold-Formed Steel framing (CFSF) is nothing new and has been used as interior partitions and curtain walls for decades. What is relatively new is the use of CFSF as the main load bearing element for structures. Hotels, dormitories, assisted living facilities, to name just a few building types, are commonly framed with CFS due to its high strength to weight ratio, design flexibility, and non-combustibility. Projects can go 10 stories + using CFSF as the main structural framing system. Presented by the Steel Framing Alliance, Cold-Formed Steel Engineers Institute and the American Iron and Steel Institute this program will provide you with the tools and resources necessary to conduct a CFS plan review, conduct an on-site inspection according to the ICC 2015 Codes. Know how to identify CFSF by the industry standard designators, the tolerances and the valuable resources available to assist you with your task									
		Masonry Fireplace Design and Construction	Superior Clay Corporation	Dana Martini		1.5	.15				
	174 -76	<u>Learning Objectives:</u> To understand the safety and code issues u <u>General Description:</u> We will cover the basic physics involved w requirements for the operation of masonry fireplaces within new	used in the design and construction of s ith the design and construction of mas v construction science.	ite-built masonry fireplac onry fireplaces. As well a	ces. Is discussion o	fair					
12:00pm- 1:00 pm	CCA	BUFFET LUNCH Please	e remember to have your Lunch Ticket	with you!!!							
1:00 pm - 3:00 pm	904-08	ICC paper and pencil exams, prior registration required	I.C.C.	Willian Govt. Relations	n Nash I.C.C. s Reg. Manage	er N.E.					
		International Existing Building Code 2015 Fundamentals (double session)	University of Massachusetts LowelL	Richard W Wood, CBO FM CFPS		1.5	.15				
1:00 pm - 2:30 pm	162-75	Learning Objectives: Students will be able to understand naviga General Description: This session will focus on understanding the Code. Emphasis will be on fundamental application of the 2015	tion and application of the 2015 Internation and utilization an eguiding principles, and utilization an edition prescriptive and work area met	ational Existing Building C d applications of, the Inte hods highlighting change	Code. ernational Exis es from prior e	ting Bui ditions.	lding				
	163C	2015 IBC Inspection of Fire-resistance-rated Floors,	International Code Council	John Farinelli		1.5	.15				

	Ceilings and Roofs						
	Learning Objectives: Upon completion of this course participar protection of rated horizontal assemblies. Describe the differ requirements for penetrations, joint systems, ducts and air tran assembly and protection systems and how those protection syst <u>General Description</u> : This course deals with the application of II topics covered include understanding the differences between f penetrations, joint systems, ducts and air transfer openings in e evaluate the assembly and protection systems and how those pro-	ats will be better able to: Identify requirences between floor, floor/ceiling a asfer openings in each of the separate tems are limited or could be compromise. BC Chapter 7 related to the construction loor, floor/ceiling and roof/ceiling asset ach of the separate elements. Addition rotection systems are limited or could be ach of the separate set the set of the separate set the set of t	irements of chapter 7 rel and roof/ceiling assembl elements. Discuss test sta sed if not installed as test on and protection of rated mblies, as well as the pro nal discussion will look at be compromised if not ins	ated to the co ies. Describe andards used t ed. I horizontal ass tection require the test stands stalled as teste	enstruct the pro to evalu semblie ements ards use ed.	ion and stection ate the s. The for ed to	
	Framing for Success - How to Avoid Callbacks	APA - The Engineered Wood Association	Robert Kuserk		1.5	.15	
165-69	Learning Objectives: Understand how wind or seismic forces in continuous load path; and its importance in structural integrity. General Description: Based on hundreds of job site reviews by construction framing and sheathing challenges found in today's provide practical solutions for avoiding them in future construct	apact the roof, walls, floors, foundation APA - The Engineered Wood Associatio wood framed construction. This sessio ion.	n, and connections of a str n staff, we have identifier on will identify these typic	ructure; the co d the most cor al areas of cor	ncept o nmon w ncern an	าf a /ood าd	
	The ADA Standards for Accessible Design (part 1)	New England ADA Center	Stacy Hart		1.5	.15	
168-72	<u>Learning Objectives:</u> 1. Know how the ADA Standards are organ the ADA requirement for older and historic building. <u>General Description:</u> This workshop is an overview of the ADA S much access is required when alterations occur; the scoping and requirements for older and historic buildings.	nized. 2. Know design requirements for Standards for Accessible Design. We w I technical design requirements for mu	municipal, commercial a ill cover how the ADA Sta nicipal, commercial and r	nd retail busin ndards are org etail businesse	ess. 3. K ganized; es; acces	how ss	
	Designing for the Future	lcynene - Lapolla	Randy Nicklas		1.5	.15	
174-76	<u>Learning Objectives:</u> Understanding spray foams for building of General Description: 1 Building science-heat air and moisture	ning Objectives: Understanding spray foams for building codes.					

2:30 pm- 3:00 pm	CCA		BREAK					
		International Existing Building Code 2015 Fundamentals (double session)	University of Massachusetts Lowell	Richard W Wood, CBO FM CFPS		1.5	.15	
	162-75	<u>Learning Objectives:</u> Students will be able to understand navigation and application of the 2015 International Existing Building Code. <u>General Description:</u> This session will focus on understanding the guiding principles, and utilization and applications of, the International Existing Building Code. Code. Emphasis will be on fundamental application of the 2015 edition prescriptive and work area methods highlighting changes from prior editions.						
2:00 nm		2015 IBC Inspection of Fire-resistance-rated Floors, Ceilings and Roofs	International Code Council	John Farinelli		1.5	.15	
4:30 pm	163C	Learning Objectives: Upon completion of this course participan protection of rated horizontal assemblies. Describe the differ requirements for penetrations, joint systems, ducts and air tran assembly and protection systems and how those protection syst <u>General Description</u> : This course deals with the application of II topics covered include understanding the differences between f penetrations, joint systems, ducts and air transfer openings in e evaluate the assembly and protection systems and how those pro-	Its will be better able to: Identify requerences between floor, floor/ceiling a sefer openings in each of the separate tems are limited or could be compromi BC Chapter 7 related to the construction loor, floor/ceiling and roof/ceiling asset ach of the separate elements. Addition rotection systems are limited or could be routed by the set of the separate elements.	irements of chapter 7 related and roof/ceiling assemblie elements. Discuss test star sed if not installed as tested on and protection of rated h mblies, as well as the protection and discussion will look at the pe compromised if not insta	ted to the co s. Describe ndards used d. norizontal as ection require ne test stand alled as teste	onstruct the pro to evalu semblies ements ards use ed.	ion and otection ate the s. The for ed to	

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	Reroofing Commercial Buildings: 2015 IECC Requirements	PIMA	Tim Milroy		1.5	.15	
165-69	<u>Learning Objectives:</u> This course reviews the code requirements construction on energy efficiency. <u>General Description:</u> The PIMA session includes a discussion of and roof replacement) in the IBC, IEBC, and IECC. The program is installation requirements for reroofing, as well as compliance wi includes a sample permit and inspection checklist developed by	the requirements and definitions for residuent to commercial reroofing, in the requirements and definitions for residuent to connect the dots and assign the provisions for fire, structural, weath PIMA in consultation with code official	ocluding a discussion of the pof repair and reroofing (w st attendees in understanc er protection and energy e s. This checklist template is	himpacts of r which includes ding the mate efficiency. Th s available fo	etrofit s roof re erial and e progra or local b	cover am uilding	
	departments to integrate into their processes and procedures; if jurisdictions on code interpretation and compliance efforts.	t can be an effective resource for buildi	ng owners and roofing cor	itractors and	can hel	p local	
	The ADA Standards for Accessible Design (part 2)	New England ADA Center	Stacy Hart		1.5	.15	
168-72	<ul> <li><u>Learning Objectives:</u> 1. Know how the ADA Standards are organized. 2. Know design requirements for municipal, commercial and retail business. 3. Know the ADA requirement for older and historic building.</li> <li><u>General Description:</u> This workshop is an overview of the ADA Standards for Accessible Design. We will cover how the ADA Standards are organized; how much access is required when alterations occur; the scoping and technical design requirements for municipal, commercial and retail businesses; access requirements for older and historic buildings.</li> </ul>						
	Existing electrical systems, equipment and other electrical requirements	Town of Salem, NH	Mike DiBartolomeo		1.5	.15	
174-76	Learning Objectives: How to recognize existing code compliant electrical systems and equipment that were installed years ago and how to recognize electrical systems that were never code compliant. Other electrical requirements from related codes. Some codes and standards referred to include; NFPA 70 - NFPA - 72 - NFPA 101 - IBC - IEBC- IECC - IMC - IRC - A117.1 - NESC - ASTM <u>General Description</u> : Beginning with Knob and Tube Wiring and moving through the earliest wiring systems, methods that we see almost every day during our inspections. The beginning of Romex (non-metallic sheathed cable) bx (armored clad cable) mc (metal clad cable) residential and commercial installations including acoustical ceiling as supports for wiring methods. This program is designed to be fast paced and very interactive.						
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### AT 4:30 p.m. ADJOURN TO CCA FOR THE RAFFLE HELD AT 4:45 P.M. 1<sup>st</sup> PRIZE \$200.00 2<sup>nd</sup> PRIZE \$100.00 3<sup>rd</sup> PRIZE \$50.00 YOU MUST BE PRESENT TO WIN!!!

#### STAND BY SPEAKERS

TAVINO		1.5	.15
Learning Objectives: General Description:			

From Design to Commissioning the Geothermal Heat Pump	Water Energy Distributors Inc	Carl Orio & Zach	1 5	15
Project		Patnaude	1.5	.15

<u>Learning Objectives:</u> Generating geothermal heating and cooling requirement; selection of best site; specific three earth coupling methods; integrating geothermal designs to conventional HVAC; Integrating heating/cooling terminals to geothermal air/water; how to evaluate and what to anticipate for geothermal performance.

<u>General Description</u>: Importance of an integrated geothermal project. Residential and commercial requirement tools and methods. Selecting water-to-air or water-to-water geo heat pumps. Integration with conventional HVAC trades/skills. Selection of air and hydronic distribution devices. Digital and analog controls and traps. Commissioning a geothermal heat pump project. Necessary Sate/Local regulations, including health, environmental, electrical and plumbing.

		1.5	.15
Learning Objectives:			
General Description:			

		1.5	.15
Learning Objectives:			
General Description:			

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Learning Objectives:			
General Description:			

		1.5	.15
Learning Objectives:			
General Description:			