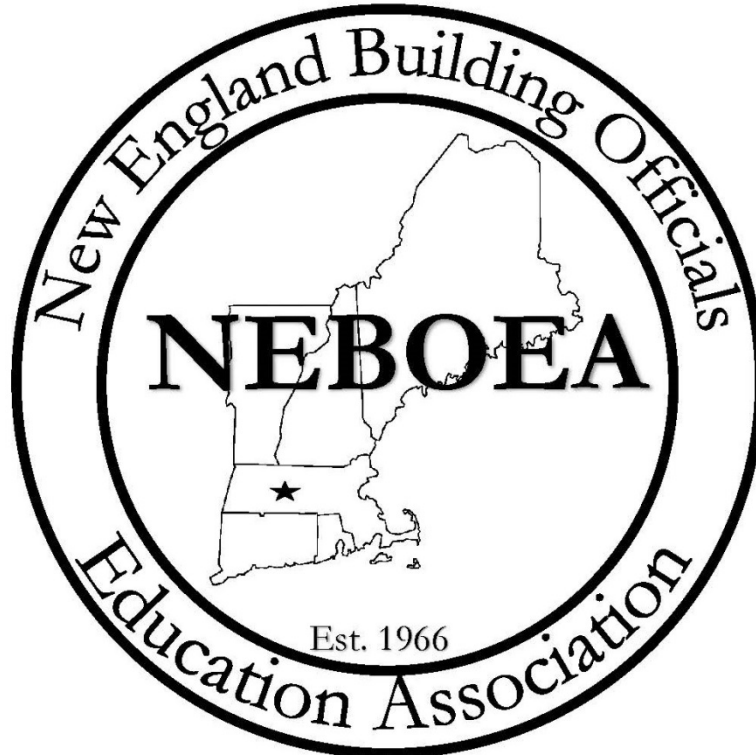


55th Annual Conference

Murray D. Lincoln Campus Center

University of Massachusetts, Amherst, MA



October 4-6, 2021

In Cooperation with:

Connecticut Building Officials Association
Maine Building Officials Association
Massachusetts Building Commissioners and Inspectors Association
New Hampshire Building Officials Association
Rhode Island Building Officials Association
ICC Building Safety Association of Vermont

2021 NEBOEA BOARD MEMBERS

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Ben Moffatt

Assistant State Fire Marshal & Plans
Examiner
State of Vermont - DPS

Rob Pickett

Consultant
Rob Pickett & Associates, LLC

Robert Sponable

Deputy Director
State of Vermont

Landon Wheeler

Assistant State Fire Marshal & Plan
Reviewer
State of Vermont

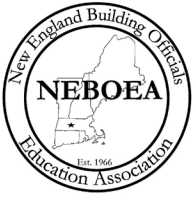
FACILITATOR

Joseph Summers, MCP, CBO

ICC LIASON

William Nash

Regional Manager
Government Relations



Monday, Oct 4, 2021

EXHIBITORS ARE OPEN ALL DAY

PLEASE VISIT AND SPEND TIME WITH OUR FRIENDS AND PARTNERS IN CODE ENFORCEMENT.

	162	Amherst 10 th Fl	163	168	174
8:00 am	Opening remarks in the CCA by; Peter Zvingilas - Chairman Joseph Summers – Facilitator				
8:30 am To 10:00 am	2021 ISPSC Gene Novak	IBC Mixed-Use Roger Axel	Residential Podium Buildings: Why are They so Prevalent? Erik Wight Robb Van Marter	Roofing Requirements for Commercial Buildings in the 2018 I-CBC Nathan Pobre	Commercial Kitchens – 5 key rules to grease duct wrap Sharron Halpert
10:30 am To 12:00 pm	Fire-Retardant-Treated Wood and the IBC James P. Gogolski	This program is also available as a webinar		Exterior Wall Fire Performance with Polyiso CI Nathan Pobre	
1:00 pm To 2:30 pm	Frame It Right! Back to Basics for Big Buildings Robert Kuserk	IEBC Essentials Roger Axel	Plumbing and Mechanical Inspections Gary Gauthier	Developing a Program for Approval and Auditing of Firestop Inspectors Wayne Barrow	Common Firestop Mistakes and How to Avoid Them Sharron Halpert
3:00 pm To 4:30 pm	Duct Sealing, Testing and Design Bill Footer	This program is also available as a webinar			

- Breaks and refreshments will be available in the CCA at 10:00 am and 2:30 pm.
- Lunch will be available in the CCA at 12:00 pm, please remember to bring your lunch ticket.
- In order to obtain the maximum number of continuing education credits remember to have the class proctor scan you in and out for each program segment. Failure to scan in and out may result in not receiving credit for the course.

Tuesday, Oct 5, 2021

BREAKFAST 7:00 - 8:15 AM –CCA 1st Floor.

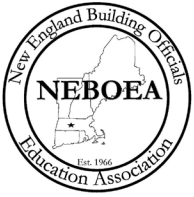
Please remember to have your Breakfast Ticket with you!!!

EXHIBITORS ARE OPEN ALL DAY

PLEASE VISIT AND SPEND TIME WITH OUR FRIENDS AND PARTNERS IN CODE ENFORCEMENT.

	162	Amherst 10 th Fl	163	168	174
8:30 am To 10:00 am	Lateral Load Paths Robert Kuserk	IRC Plan Review Roger Axel This program is also available as a webinar	Inclined Pile Footing Technology – Innovations for Deck Construction Mike Donoghue	The Energy Code and Additions, Alterations and Repairs Bill Footer	Plumbing and Mechanical Inspections Gary Gauthier
10:30 am To 12:00 pm	Green Building, Changes in the Cement and Concrete Industry Kevin Miller		NFIP Substantial Improvement / Substantial Damage Work in the Floodplain Joy Duperault	Changes in the 2020 NEC Earl Dean	
1:00 pm To 2:30 pm	Back to Basics: Means of Egress Carl Nelson & Joe Igoe		Accessibility Scoping & Common Challenges in New and Existing Buildings Caitlin Gamache		Off-Site Construction Rob Pickett
3:00 pm To 4:30 pm	Spray Foam Insulation and the Building Codes Randy Nicklas		Inspection of Solid-Fuel Hearth Appliances Karen DiVerdi	Code-Based Approach to Assessment, Repair and Rehab of Existing Concrete Structures Khaled Nahlawi, PE	

- 9:00 am; MA Educational Board meeting will be held in room 177
- Breaks and refreshments will be available in the CCA at 10:00 am and 2:30 pm.
- Lunch will be available in the CCA at 12:00 pm, please remember to bring your lunch ticket.
- Social Hour; Adjourn to Amherst Room 10th floor for cocktails starting at 6:00 p.m. Don't forget your ticket!!!
- In order to obtain the maximum number of continuing education credits remember to have the class proctor scan you in and out for each program segment. Failure to scan in and out may result in not receiving credit for the course.



Wednesday, Oct 6, 2021

BREAKFAST 7:00 - 8:15 AM –CCA 1st Floor.

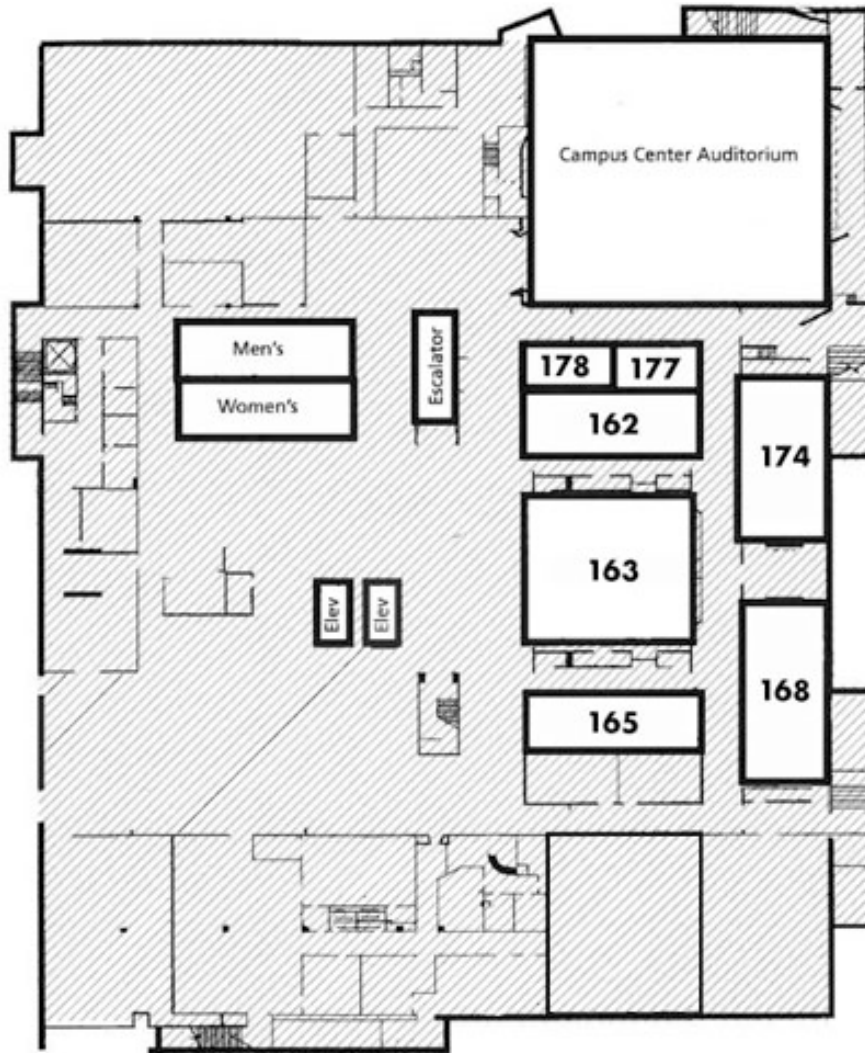
Please remember to have your Breakfast Ticket with you!!!

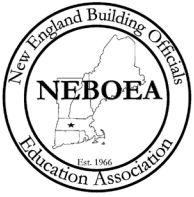
	162	Amherst 10 th Fl	163	168	174
8:30 am To 10:00 am	2018 IECC Residential Updates w/MA Bill Footer	Legal Aspects of Building Code Administration and Enforcement Judith Rothschild	Strategies, Techniques & Procedures-Code Administration, Enforcement Robert Camacho	Flood Stuff Brian Newman	
10:30 am To 12:00 pm	2018 IECC Commercial Updates w/MA Bill Footer	This program is also available as a webinar	Expedited Your Plan Reviews Erik Wight		

- Breaks and refreshments will be available in the CCA at 10:00 am.
- Lunch will be available in the CCA at 12:00 pm, please remember to bring your lunch ticket.
- Raffle will be held at 12:30 pm in the CCA.
- In order to obtain the maximum number of continuing education credits remember to have the class proctor scan you in and out for each program segment. Failure to scan in and out may result in not receiving credit for the course.

Campus Center

First Floor





Course Description/Details:

2018 IBC Mixed Occupancies

Roger Axel

ICC

3-hours

Based on provisions of IBC Section 508, this seminar addresses those special requirements applicable to buildings containing two or more occupancy classifications. The three mixed-occupancy options are presented along with examples and exercises that illustrate the proper application of the provisions.

2018 IEBC Essentials

Roger Axel

ICC

3-hours

This seminar will introduce critical concepts of the IEBC. It will provide a basis for the correct use and application of the code. It will build an understanding of the intent of the code through detailing basic tables, categorizations and a case study.

2018 IRC Performing Residential Plan Reviews

Roger Axel

ICC

6-hours

Provides a procedure for reviewing residential building plans and specifications based on Chapters 1 through 10 of the IRC. Allows participants to practice a building plan review during the seminar using actual construction documents and an IRC Plan Review Record.

2018 IECC Commercial Updates with MA Amendments

Bill Footer

Performance Systems Development

1 ½ -hours

In March 2019, the BBRS approved the 2018 IECC with MA amendments as the baseline energy code. This new energy code had an effective date of February 7th, 2020, with a concurrency period expiring on November 7th, 2020. These presentations will highlight the salient changes to the base energy code. Which include changes to compliance paths, prescriptive and performance requirements, and documentation requirements.

2018 IECC Residential Updates with MA Amendments

Bill Footer

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2021 ISPSC Preparations 10th Edition

Gene Novak

DPL-OPSI

1 ½ - hours

Update includes changes from 2015, 2018 and 2021 ICC-ISPSC "Swimming Pools"

Accessibility Scoping & Common Challenges in New and Existing Buildings

Caitlin Gamache

Code Red Consultants, LLC

1 ½ -hours

Does accessibility compliance often feel overwhelming? Are you left with the feeling that triggers and additional scope should be more clearly defined early in design for renovation projects? If so, grab a seat and join us for clarity as we break down the scoping criteria for both new construction and existing buildings, with specific emphasis on the 2010 ADA and 521 CMR. Topics will include exclusions of specific spaces, toilet requirements (ADA vs. 521 CMR), existing building triggers and requirements for employee work areas. We will also discuss the proposed 521 CMR code updates, lessons learned (some tough!) relative to the application of 521 CMR and potential variances with alterations are technically infeasible.

Back to Basics: Means of Egress

Carl Nelson & Joe Igoe

Code Red Consultants, LLC

1 ½ -hours

Means of egress is one of the most important code fundamentals that building officials must thoroughly understand to properly review design documents and perform inspections to confirm compliance. With a wide range of topics including occupant loads, egress capacity, number of exits and egress arrangements, it is a complex subject that alone spans nearly 50 pages of building code. It's no wonder that the topic is often misunderstood and enough to make one's head spin. This presentation will take a step back and provide a refresher on the major components of the means of egress system which will allow you to more effectively and efficiently review and inspect future projects in your municipality.

Changes in the 2020 NEC

Earl Dean

Groton, CT

3-hours

This two-part seminar will highlight and explain revisions to NEC design and installation requirements. Based on the IAEI PowerPoint slides in Analysis of Changes, NEC 2020, this seminar will focus on those NEC sections that pertain to residential installation inspections.

Code-Based Approach for Assessment, Repair and Rehabilitation of Existing Concrete Structures

Khaled Nahlawi, PE

American Concrete Institute

1 ½ -hours

ACI has developed a repair code that provides standard requirements for evaluating existing concrete buildings and the subsequent repair, rehabilitation, and strengthening of those structures. The presentation will include reason for the motivation behind the development of the repair Code, the overall philosophy and organization for the material, examples of how the code is applied to structural repair and rehabilitation projects. The presentation will highlight important aspects pertaining to the engineer, contractor, inspector, and code official responsible for review and oversight of these types of projects.

Common Firestop Mistakes and How to Avoid Them

Sharron Halpert

Halpert Life Safety Consulting LLC

3-hours

We hope you can join us for this class where our instructor will go over some of the most commonly overlooked firestop issues & how to avoid them. Basically what's going to happen is that a firestop consultant/special inspector is going to vent about the common issues she sees in the field. This course is 80% education, 10% rant and 10% comedy routine because some of it, if you can laugh you might cry. If you work in Type V construction or projects with solid concrete slabs, hollow core concrete,

Hambro style floors, fluted metal deck you will come away with a whole new way to look at firestop. Do your projects have shaft wall construction (of course they do) Do you have any idea how often they are done WRONG?!? This is a great class to put after lunch because you won't likely fall asleep. Be ready to learn because you are going to get A LOT thrown at you. Please join us, but not without a warning: Our instructor has been accused of being contagiously enthusiastic about firestop and passive fire protection. You may be vaccinated from Covid but there is no vaccination for this contagion. Sharron is on a mission to help people who want to build better. If that is you please know that you may not leave this class ever able to look at firestop the same way.

Commercial Kitchens – 5 key rules to grease duct wrap

Sharron Halpert

Halpert Life Safety Consulting

3-hours

Join us for a discussion of how fire rated grease duct wrap is tested. Once you understand that we will talk about the key things to look for to ensure the installation conforms with the requirements. Then we will help you see the five key failure points you may want to avoid on your installations, but since you know how the tests is conducted you will be able to see how the assembly could fail. We will walk you through some of the more complex installations as well, just in case you run into them from time to time. If you apply the information in this class you can make your community safer. Don't tell anyone, but you might actually have fun learning about fire test standards and applying what you learn to the hands on training.

Developing a Program for Approval and Auditing of Firestop Inspectors

Wayne Barrow

VeriCon

3-hours

The ICC requires all special inspectors to first be approved, then audited by the building official, but firestop inspections present extra challenges due to the lack of certifications and misunderstanding of firestopping. This session will layout a full program for approval and auditing of firestop inspectors using requirements in Chapter 17 of the IBC and guidelines from the 2018 ICC Special Inspections Manual.

Duct Sealing, Testing and Design

Bill Footer

Performance Systems Development

1 1/2-hours

According to the 2015-16 study on single-family residential homes, over 90% of all homes studied had all or portion of duct systems in unconditioned space which means all these homes would require duct testing and portions outside conditioned space should be insulated. This course discusses code requirements for duct testing, prescriptive duct leakage requirements, duct insulation and sealing requirements. With a discussion on best practices in duct insulation, the presenter will discuss Manual D which is a process to design duct systems and required by code.

Expediting Your Plan Reviews

Erik Wight

Plan Review Services LLC

1 1/2-hours

Recognize building permit submission requirements. Identify critical life safety information to be incorporated on construction documents. Understand applicable general code requirements for construction documents. Learn to identify common code omissions and pitfalls made on construction documents. Outlining techniques to conduct your plan reviews quickly and efficiently. Instructed by two seasoned plan reviewers who will demonstrate the critical items required on construction documents.

Fire-Retardant-Treated Wood and the IBC

James P. Gogolski

Hoover Treated Wood Products

1 ½ -hours

This in-depth presentation on fire-retardant-treated wood (FRTW) focuses on its characteristics, properties, and performance in a fire as well as its preparation, treatment, inspection, and labeling. Building code requirements related to FRTW as well as code sections will be discussed. Examples on where FRTW is used in both noncombustible and combustible construction will be illustrated. Technical literature (paper or .pdf) will be provided to all attendees.

Frame it Right! Back to Basics for Big Buildings

Robert Kuserk

APA Wood

1 ½ -hours

The demand for commercial and multifamily construction is soaring, and the framing industry is expanding to meet this demand.

APA – The Engineered Wood Association has walked hundreds of job sites and identified the most common wood construction framing errors found in today's nonresidential buildings. This session examines the consequences of these framing mistakes from the ground up providing practical solutions for avoiding typical issues using APA resources as a guide.

Learning Objectives:

Identify common pitfall in the construction of low-rise wood buildings.

Understand how the loads on a nonresidential wood building influence framing, and mitigate negative effects of loading.

Understand how engineered wood products (EWP) may be used and how to choose EWP products that meet those needs.

Learn how to navigate technical resources to address the challenges with nonresidential wood buildings framers.

Green Building, Changes in the Cement and Concrete Industry

Kevin Miller

KE Miller, LLC

1 ½ -hours

How the Cement and Concrete Industries are treating the growing concern to reduce their carbon footprint.

Inclined Pile Footing Technology – Innovations for Deck Construction

Mike Donoghue

Diamond Piers

1 ½ -hours

Residential exterior decks, covered decks, elevated walkways and stairways projects are some of the most popular and numerous residential construction projects. There have been many recent innovations in designs, materials and construction methods. IRC building codes have evolved to keep pace with the dynamic nature of the market. Inclined pile footings used for residential deck construction have advantages for code enforcement officials, homeowners and contractors.

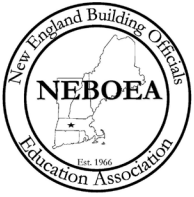
Inspection of Solid0Fuel Hearth Appliances

Karen DiVerdi

NEHPBA

1 1/2-hours

Review relevant codes and their application to solid-fuel hearth appliance installations.



Lateral Load Path Basics

Robert Kuserk

APA Wood

1 ½ -hours

This session will outline the path a wind load takes through a wood-framed structure, as well as the importance of a complete load path and associated construction details

Learning Objectives:

1. Understand the complete lateral load path
2. Identify common framing errors within this path
3. Understand the consequences of an incomplete path
4. Discuss and evaluate code requirements for critical details

Legal Aspects of Building Code Administration and Enforcement

Judith H. Rothschild, J.D.

City of Hartford

3-hours

Review of the basics of legal administration of building code administration and enforcement. Topics include right of entry, inspections, issuance of orders and prosecution of violations.

NFIP Substantial Improvement / Substantial Damage Work in the Floodplain

Joy Duperault, CFM, State NFIP Coordinator

MA Dept of Conservation & Recreation

1 ½ -hours

This course will clarify floodplain management regulations and permitting practices related to Substantial Improvement and Substantial Damage for work in local floodplains.

Off-Site Construction

Rob Pickett

RobPickett & Associates, LLC

1 ½ -hours

An introductory review to ICC/MBI draft standards 1200 Standard for Off-Site Construction: Planning, Design, Fabrication and Assembly and 1205 Standard for Off-Site Construction: Inspection and Regulatory Compliance.

Residential Heat Pumps: Best Practices for Proper Sizing and Installation

Charlie McCracken

CLEARresult LLC

1 ½ -hours

Residential Heat Pumps can provide most the heating and cooling of a properly insulated residential home. Load Calculations and Duct Design, Best Installation Practices and Applications, and demonstration of free software products that Code Officials can use. The CLEARresult LLC MS Check test procedure used in the Rhode Island Heating and Cooling program will also be shown.

Residential Podium Buildings: Why are They so Prevalent?

Erik Wight, Robb Van Marter, Jason Lee

Building Consultation Services

3-hours

During this seminar we will explain the building code requirements for podium buildings, their history, show examples, highlight constructibility issues, discuss trends and their future as well as indicate common code omissions to be aware of from plan review through certificate of occupancy.

Spray Foam Insulation and the Building Codes

Randy Nicklas

Huntsman Building Solutions

1 1/2-hours

The course will present how spray foam insulation complies with the IRC, including heat, air and moisture flows, air barriers, thermal and ignition barriers, unvented attics, fire codes along with properties and applications of open and closed cell spray foam.

Strategies, Techniques & Procedures – Code Administration

Robert F. Camacho

Four Phases of Public Safety

1 ½ -hours

Program is designed to assist Building Officials with sharpening the skills they already possess, introduce new concepts and ways to better administer, enforce & articulate the significant role of a Building Official.

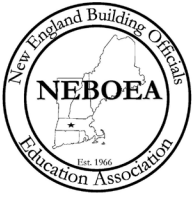
The Energy Code and Additions, Alterations and Repairs

Bill Footer

Performance Systems Development – Mass Save CSCS

1 ½ -hours

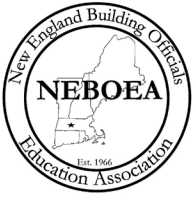
Residential renovations, alterations, repairs and additions make up the largest proportion of building permit applications; yet, confusion abounds as to how the energy code applies such as when duct testing is required, how should ducts be insulated and blower door testing.



THANKS TO SPEAKERS AND EXHIBITORS

The New England Building Officials Education Association Committee wishes to thank all of the Speakers for their support this year and for the many years past. This program would not be a success without your help, expert knowledge and willingness to share it with us.

We also wish to thank all the Exhibitors for showing their products, discussing their use, application and code compliance with the participants in this Seminar, as well as previous Educational Seminars. Your assistance and participation are greatly appreciated.



2021 CONFERENCE
COURSE EVALUATION
MONDAY, OCTOBER 6, 2021

By returning this completed Evaluation Form at the end of the day your name is automatically entered in the raffle to be held at 1:00 P.M. Wednesday in the Campus Center Auditorium.

Your presence is required to win.

First prize: \$200 Second prize: \$100 Third prize: \$50

8:30-10:00 ROOM _____ TOPIC _____ INSTRUCTOR _____

E G F P COMMENTS: _____

10:30-12:00 ROOM _____ TOPIC _____ INSTRUCTOR _____

E G F P COMMENTS: _____

1:00-2:30 ROOM _____ TOPIC _____ INSTRUCTOR _____

E G F P COMMENTS: _____

3:00-4:30 ROOM _____ TOPIC _____ INSTRUCTOR _____

E G F P COMMENTS: _____

CUT ON THE LINE ABOVE

DO NOT REMOVE THIS PORTION OF THE EVALUATION - BELOW IS A RAFFLE TICKET

NAME: _____ **Home address:** _____



2021 CONFERENCE
COURSE EVALUATION
TUESDAY, OCTOBER 5, 2021

By returning this completed Evaluation Form at the end of the day your name is automatically entered in the raffle to be held at 1:00 P.M. Wednesday in the Campus Center Auditorium.

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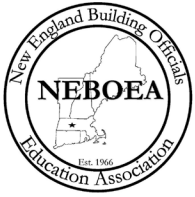
3:00-4:30 ROOM _____ TOPIC _____ INSTRUCTOR _____

E G F P COMMENTS: _____

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NAME: _____ **Home address:** _____



2021 CONFERENCE COURSE
EVALUATION

WEDNESDAY, OCTOBER 4, 2021

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Your presence is required to win.

First prize: \$200 Second prize: \$100 Third prize: \$50

8:30-10:00 ROOM _____ TOPIC _____ INSTRUCTOR _____

E G F P COMMENTS: _____

10:30-12:00 ROOM _____ TOPIC _____ INSTRUCTOR _____

E G F P COMMENTS: _____

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