

# Lawrence Contractor 2021 Education Seminar REGISTRATION

Hosted by:



Home Builders Association  
Building Our Community STRONGER

## Locations

November 2 and 16 Classes: Security 1st Title, 4913 Oread West Drive

December 3 Classes: DoubleTree, 200 McDonald Drive

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_ Email: \_\_\_\_\_

## Tuesday, November 2

	<u>Hours</u>	<u>Fee</u>	<u>LHBA Fee</u>
<del>_____ 2018 (and 2021) Residential Energy Code</del>	<del>4 hours, 1—5pm</del>	<del>\$100</del>	<del>\$50</del>

## Tuesday, November 16

<del>_____ Adaptive Universal Remodeling</del>	<del>4 hours, 1—5pm</del>	<del>\$100</del>	<del>\$50</del>
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## Friday, December 3

_____ International Fuel Gas Code	4 hours, 8am—Noon	\$100	\$50
<del>_____ 2018 Residential Mechanical</del>	<del>4 hours, 8am—Noon</del>	<del>\$100</del>	<del>\$50</del>
_____ Electrical Load Calculations for Dwelling Units	4 hours, 8am—Noon	\$100	\$50
<del>_____ Remodeling Basements: Planning through Punch List</del>	<del>4 hours, 8am—Noon</del>	<del>\$100</del>	<del>\$50</del>
_____ Building Your Workforce Pipeline in Construction	2 hours, 8am—10am	\$50	\$25
_____ Construction Safety on the Jobsite	2 hours, 10am—Noon	\$50	\$25
_____ Plumbing Code Installations and Inspections	4 hours, 1pm—5pm	\$100	\$50
_____ 2018 IMC Commercial Applications	4 hours, 1pm—5pm	\$100	\$50
_____ Electrical Requirements for Docks	4 hours, 1pm—5pm	\$100	\$50
_____ 2018 (and 2021) IRC Wood Wall Bracing	4 hours, 1pm—5pm	\$100	\$50
_____ Improving Concrete Performance: The Importance of Mix Design and Testing	2 hours, 1pm—3pm	\$50	\$25
_____ Carbon Reduction Methods in Concrete Construction	2 hours, 3pm—5pm	\$50	\$25

HOURS: \_\_\_\_\_ \$ \_\_\_\_\_

**Mail Registration & Payment to: PO Box 3490, Lawrence, 66046**

**Register On-line: [www.LHBA.net](http://www.LHBA.net)**

**QUESTIONS? (785) 748-0612**

# Lawrence Contractor 2021 Education Seminar

**November 2, 1—5pm**

**Location: Security 1st Title, 4913 Oread West Drive**

## **2018 (and 2021) Residential Energy Code**

4 Credit Hours

Instructor: Neal Ezell

Complying with the 2018 Residential Energy Code has required us to construct our homes to a much higher level of energy efficiency. The average new home built in Lawrence now has a HERS index in the low 60's. Performance/cost issues that result will be examined. You will learn about: Selecting the best energy code compliance path; Infiltration and whole house ventilation; Tricks to getting your home under 3 ACH; Insulating program areas; Internal systems, and 2021 Energy Code highlights.

**November 16, 1—5pm**

**Location: Security 1st Title, 4913 Oread West Drive**

## **Adaptive Universal Remodeling**

4 Credit Hours

Instructor: Charlie Blair

You will be lead you through the complexities of assessing accessibility for residential kitchen and bathroom remodeling jobs by an experienced remodeling contractor. Based on the requirements of the International Residential Code, used by jurisdictions throughout Johnson County, and NKBA standards, you will learn a systematic approach to this increasingly complicated art and science of accessibility remodeling. Learn from an expert not just what is required by the code, but common situations and pitfalls. We will consider not just code-based requirements, but also requirements driven by the plumbing, mechanical, and electrical provisions of the code with an emphasis toward accessibility issues for kitchens and baths.

**December 3, 2021**

**Location: DoubleTree—200 McDonald Drive**

**Check-in begins at 7:15am**

8:00	International Fuel Gas Code	2018 Residential Mechanical	Electrical Load Calculations for Dwelling Units	Remodeling Basements: Planning through Punch List	Building Your Workforce Pipeline
10:00					Construction Safety on the Jobsite
LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
1:00	Plumbing Code Installations and Inspections	2018 IMC Commercial Applications	Electrical Requirements for Docks	2018 (and 2021) Wood Wall Bracing	Improving Concrete Performance
3:00					Carbon Reduction Methods in Concrete

## December 3, A.M. Seminars

### **International Fuel Gas Code**

4 Credit Hours

8am—Noon

Instructor: Bobby Doran

The instructor will review the International Fuel Gas Code and the critical areas the code addresses. The attendee will be able to discuss piping tables, materials of fuel gas systems, venting and appliances. An important course for those that deal with fuel gas systems.

### **2018 Residential Mechanical**

4 Credit Hours

8am—Noon

Instructor: Sam Dardano, Jr.

This class will walk the attendee through the do's and don'ts of the International Residential Code's mechanical residential applications. It will cover topics including mechanical appliances and equipment, fuel gas supply, venting, air ducts and combustion air.

### **Electrical Load Calculations for Dwelling Units**

4 Credit Hours

8am—Noon

Instructor: Michael Panethiere, P.E.

This presentation will be an overview of Electrical Load Calculations for Dwelling Units as referenced in the NEC Article 220 – Branch Circuit, Feeder, and Service Load Calculations, and cover the following: Lighting loads and what's included; Utilization voltages for calculations, designing with NEC requirements; Loads for additions to existing dwelling unit installations; Receptacle outlet calculations, maximum demand; general lighting load demand factors; Small appliance, large appliance, and laundry loads; Electrical clothes dryers and electric cooking appliance load and demand factors; Utilizing the optional feeder and service load calculations for new and existing installations for single family dwellings and duplexes; and Utilizing the optional feeder service load calculations multifamily dwellings, apartments, townhouses, and condominiums.

### **Remodeling Basements: Planning through Punch List**

4 Credit Hours

8am—Noon

Instructor: Charlie Blair

Let an experienced remodel contractor lead you through the complexities of residential basement finish jobs. You will learn a systematic approach to this profitable area of remodeling. Learn from an expert what is required by the International Residential Code, and plan strategically for project success. This class will be of greatest interest to Class C contractors, building inspectors, and plan reviewers, but electrical, plumbing and mechanical contractors working in residential remodeling will find value in the class also.

### **Building Your Workforce Pipeline in Construction**

2 Credit Hours

8am—10am

Instructor: Kevin Kelly

You wouldn't build a house without a hammer, so don't try to build your workforce without the right tools. This course will provide specific tools to help develop your workforce. The myths related to internships, on-the-job training and apprenticeships will be cleared up, while providing you information about funding support for upskilling your current employees and bringing on new hands.

### **Construction Safety on the Jobsite**

2 Credit Hours

10am—Noon

Instructor: Craig Stromgren

The single most important reason for safety on a construction site is your workers. Construction sites can be extremely dangerous if precautions aren't taken, and keeping your employees out of harm's way is worth taking the extra time to comply to the safety rules. This class will review fall protection, excavations/trenching, first aid basics, silica awareness and how to be prepared for OSHA.

## **December 3, P.M. Seminars**

### **Plumbing Code Installation and Inspections**

4 Credit Hours

1pm—5pm

Instructor: Bobby Doran

Join us in this session when we work through the 2018 International Plumbing Code. This class will help the attendee keep current with plumbing systems and materials. The course is designed to assist the student in obtaining knowledge through an expert in the plumbing field.

### **2018 IMC Commercial Applications**

4 Credit Hours

1pm—5pm

Instructor: Sam Dardano, Jr.

This class will walk the attendee through the Mechanical Code do's and don'ts of the Mechanical Code's commercial applications. It will cover topics including mechanical appliances and equipment, fuel gas supply, venting, air ducts and combustion air.

### **Electrical Requirements for Docks**

4 Credit Hours

1pm—5pm

Instructor: Michael Panethiere, P.E.

This presentation will be an overview of NEC Article 555 – Electrical Requirements for Docks, and cover the following: Types of facilities affected/covered; Definition of the datum plane and marine power outlets; Location of service equipment, electrical connections, and electrical equipment enclosures; Load calculations and demand factors for services and feeders including accommodation of shore power receptacles; Grounding requirements for equipment, receptacles, branch circuits and feeders; Motor fuel dispensing stations at hazardous/classified locations; Receptacle locations, enclosures, ratings for shore power and other than shore power; Electrical shock drowning (ESD); and Signage requirements and changes in the 2014, 2017 and 2020 NEC.

### **2018 (and 2021) IRC Wood Wall Bracing**

4 Credit Hours

1pm—5pm

Instructor: Neal Ezell

One of the things that make this part of the code book so overwhelming is that it includes tables and rules for other regions that have seismic activity and higher wind speeds that do not apply to the central U.S. Attendees will receive a Quick-Reference Guide that is an abridged version of the code with the basic rules, tables, and a step-by-step process for determining wall bracing requirements. Several examples will be worked in class to demonstrate the use of different techniques. Attendees will be given the opportunity to download an Excel spreadsheet that automates wall bracing calculations.

### **Improving Concrete Performance: The Importance of Mix Design and Testing**

Instructor: Rusty Owings III, AIA

2 Credit Hours

1pm—3pm

In this class, attendees will learn about Sustainable and resilient mix design for optimal performance; Aggregate optimization for strength and durability; Carbon reduction mixes with pozzolans and new technologies; Testing concrete for performance verification; and Performance specification vs. Prescriptive specification.

### **Carbon Reduction Methods in Concrete Instruction**

2 Credit Hours

3pm—5pm

Instructors: Megan Dangel and Shannon Seipal

Embodied Carbon, the emissions associated with the building material manufacture and construction, will account for nearly half of the total carbon footprint of new construction between now and 2050. Ambitious environmental goals of reducing embodied carbon by 50% by 2030 and eliminate it by 2050 are generally anticipated. Architects, Engineers, Contractors, Builders and Policy Makers have aligned on the mission to dramatically reduce this now. This course will look at ways we can reduce that footprint by ready mix concrete practices that will help advance these goals. Specifically, you will learn about the advent of Type 1L (PLC) Portland Limestone Cement and the cutting-edge technology of Carbon Cure CO2 injection of embodied carbon into ready mix concrete.