1. 2020 National Electrical Code Update

1. 2020 National Electrical Code Update
Highway and Road Projects
Presented by
17 years of experience with the Texas Department of Transportation (TxDOT)

Agenda Highlights:
Tuesday, May 10, 2022 | 9:00 am - 12:15 pm CDT
Tuesday, May 10, 2022 | 9:00 am - 3:40 pm CDT

Chapter 9: Tables and Annexes
Chapter 7: Special Conditions
Chapter 8: Communications Systems
Chapter 5: Special Occupancies
Chapter 6: Special Equipment
Chapter 3: Wiring Methods and Materials
Chapter 4: Equipment for General Use
Chapter 1: General

Goals and Objectives, errata and new features, types of changes,
Project scheduling
Construction claims and disputes
Material sampling and testing
Additional inspections
Project scheduling
Construction claims and disputes

Presented by Rick Chambers
Chambers Electric, Inc. Iowa City, IA
22 USNATEL 5 WEBR CP

2. Construction Management for Highway and Road Projects

Monday, May 9, 2022 | 9:00 am - 12:15 pm CDT (incl. a 15-min break)
Tuesday, May 10, 2022 | 9:00 am - 12:15 pm CDT (incl. a 15-min break)

Credits: Professional Engineers: 6.0 PDHs (except New York)
International Code Council: 6 CEUs (Administration)
Certified Planners: CM (6.0)

Agenda Highlights:
What is roadway construction project management?
Construction administration
Government project procedures for federally funded projects
administered by municipalities
Major components of construction inspection
Material sampling and testing
Additional inspections
Project scheduling
Construction claims and disputes

Presented by George Lueck, P.E.
17 years of experience with the Texas Department of Transportation (TxDOT)

3. Design Considerations and Mixed Occupancy Options for Speculative Buildings

Tuesday, May 10, 2022 | 9:00 am - 3:40 pm CDT (incl. a 30-min break)

Credits: Professional Engineers: 6.0 PDHs
Architects: 6.0 HSW CE Hours
AIA: 6.0 LU|HSW
International Code Council: 6 CEUs (Building)

Agenda Highlights:
Initial code review of the speculative occupancies submitted for permit
Analyze the mixed occupancy options
Introduce a change of occupancy
Analyze the specific requirements for the new drinking and dining
Occupancy
Calculation of restroom requirements
Mechanical overview
Proposed new occupancy repair garage

Presented by Greg Karow C.B.O.
CEO of Code Educational Opportunities
22 USDMCOB 5 10 WEBR LH

4. Orthometric Heightening with GNSS

Tuesday, May 10, 2022 | 9:00 am - 11:15 pm CDT (incl. a 15-min break)

Credits: Professional Engineers: 4.0 PDHs
Land Surveyors: 4.0 PDHs
No credit in NY, NJ, TN, Y0. FL PDHs (Course No. 10244)

Agenda Highlights:
Gravity, geopotential, and the geoid
Orthometric heighting with GNSS

Presented by Thomas H. Meyer, Ph.D.
Professor of Geodesy, University of Connecticut

5. Structural Design Loads

Tuesday, May 10, 2022 | 9:00 am - 4:30 pm CDT (incl. a 60-min break)

Credits: Professional Engineers: 6.5 PDHs
Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW
International Code Council: 6 CEUs (Building)

Agenda Highlights:
Understanding structural loads and ASCE/SEI 7-22
Dead loads, soil loads and hydrostatic pressure
Rain, ice and snow loads
Selected appendices

Presented by Vincent F. Fratinardo P.E. S.E. RRC
Civil/structural engineer and roof consultant

6. Urban Stormwater System Design and Construction

Thursday, May 12, 2022 | 8:30 am - 4:30 pm CDT (incl. a 60-min break)

Credits: Professional Engineers: 6.5 PDHs
Architects: 6.5 HSW CE Hours
AIA: Pending
Landscapers: 6.5 HSW CE Hours
LA CES: 6.5 HSW PDHs
Floodplain Managers: 6.5 ASFPCECs

Agenda Highlights:
Exploring urban hydrology and environment
Reviewing regulations and doing stormwater modeling
Designing a separate storm sewer system
City-scale strategic stormwater planning
Storm sewer design case study

Presented by
Scott Southall, RLA, LEEP AP Principal at EarthEngine
Denise O'Meara, RLA, LEEP AP Landscape Architect at EarthEngine
Chris Dent, PE Professional Engineer at Synterra Corp

7. IBC Significant Changes

Friday, May 13, 2022 | 11:00 am - 3:30 pm CDT (incl. a 30-min break)

Credits: Professional Engineers: 4.0 PDHs
Architects: 4.0 HSW CE Hours
AIA: 4.0 LU|HSW
International Code Council: 4 CEUs (Building)

Agenda Highlights:
Review the major changes occurring between the 2018 and the 2021 version of the International Building Code (IBC) – Chapters 11-26
Accessibility
Building envelope
Structural systems
Construction materials

Presented by Jared Agee, MCP, CBO
Director of Building and Code Enforcement for St. Charles County, Missouri

8. Revit Basics of Building Modeling

Friday, May 13, 2022 | 9:00 am - 1:00 pm CDT (incl. a 15-min break)
Friday, May 20, 2022 | 9:00 am - 1:00 pm CDT (incl. two 15-min breaks)

Credits: Professional Engineers: 7.0 PDHs
Architects: 7.0 non-HSW CE Hours
AIA: 7.0 AIA LU|Elective

Agenda Highlights:
Building skewers modeling/Revit overview
Using the Revit interface
Getting started with a project
Creating basic model elements
Adding components and other features
Creating sheets
Creating 3D views

Presented by Natalie Niemann
Registered Architect

9. The Tree Course:
Science, Design, and Sustainability

Friday, May 13, 2022 | 9:00 am - 4:30 pm CDT (incl. a 30-min break)

Credits: Professional Engineers: 6.5 PDHs
Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW
Landscape Architects: 6.5 HSW CE Hours
LA CES: 6.5 HSW PDHs
Foresters: SAP Pending
ISA: ISA Pending

Agenda Highlights:
The scientific, economic, and aesthetic benefits of trees
If trees could talk – the secrets of healthy, mature trees
Trees are infrastructure: design elements that appreciate trees and site requirements: always at odds?
Trees that outline designs: after the project is finished
Threats to trees

Presented by John Palmer, BCMA
PlanetCare Landscape and Arboricultural Services

10. International Existing Building Code 2021

Tuesday, May 17, 2022 | 9:00 am - 4:30 pm CDT (incl. a 10-min break)

Credits: Professional Engineers: 6.5 PDHs
Architects: 6.5 HSW CE Hours
AIA: 6.5 LU|HSW
International Code Council: 6 CEUs (Building)

Agenda Highlights:
A brief history of modern code development
Working with the International Existing Building Code
Chapter 3: Provisions for All Compliance Methods
Chapter 4: Repairs
Chapter 5: Prescriptive Compliance Method
Chapter 6: Classification of Work
Chapter 10: Change of Occupancy
Chapter 12: Historic Buildings
Chapter 13: Performance Compliance Method
Chapter 14: Relocated or Moved Buildings
Appendices A, B, C and Resource A

Presented by Jerry R. Tepe, FAIA
Owner at JRT-AIA Architect, in Concord, New Hampshire

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