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## 1. Designing for Accessibility under ADA Standards and 2021 IBC

Tuesday, January 11, 2022 | 8:30 am - 4:30 pm CST (incl. a 60-min break) **Tuition:** \$289

**Credits:** Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours  
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Accessibility)  
Interior Designers: 6.5 CE Hours/PDHs (see course listing online for details)

### Agenda Highlights:

Complying with federal and state accessibility requirements  
Meeting standards in ADA standards and the 2021 IBC

**Presented by Jerry R. Tepe, FAIA** *Owner at JRT-AIA Architect, in Concord, New Hampshire*  
22 USD4AADA 1 11 WEBR TB

## 2. Technical Writing Workshop for Design Professionals

Wednesday, January 12, 2022 | 8:30 am - 5:00 pm CST (incl. a 60-min break) **Tuition:** \$289

**Credits:** Professional Engineers: 7.0 PDHs\* Architects: 7.0 Non-HSW CE Hours\*  
AIA: 7.0 LU | Elective \*Not approved for Engineers or Architects in New York

### Agenda Highlights:

Planning, designing and writing documents  
Best practices in correspondence and technical documents  
Document elements Revising and editing documents

### Presented by Dr. Mark Decker

*Professor and department chair in Bloomsburg University's English Department*  
22 USTWW4DP 1 12 WEBR FC

## 3. IRC Significant Changes – Chapters 1-10

Thursday, January 13, 2022 | 11:00 am - 3:30 pm CST (incl. a 30-min break) **Tuition:** \$199

**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 to the 2021 version of the International Residential Code (IRC)

- Administration
- Definitions
- Building planning and all related building technical requirements

Relevant appendices will be reviewed. An emphasis is placed on understanding the change, why the change is important, and how it will impact future construction projects

### Presented by Jared Agee, MCP, CBO

*Director of Building and Code Enforcement for St. Charles County, Missouri*  
22 USIRC110 1 13 WEBR WL

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## 4. Handling Ethical Issues in Construction

Tuesday, January 18, 2022 | 3:00 - 5:00 pm CST **Tuition:** \$100

**Credits:** Professional Engineers: 2.0 Ethics PDHs Architects: 2.0 HSW CE Hours  
AIA: 2.0 LU|HSW International Code Council: .2 CEUs (Administration)

### Agenda Highlights:

Avoiding ethical issues during the bidding process  
Gifts, favors and the appearance of impropriety  
Your duties to your employer, the project owner, and other project participants  
Adopting practices that minimize ethics issues  
The ethics of safety: fulfilling duties to employees and the public  
Incorporating environmental ethics and sustainability into construction and development projects

**Presented by Doug Holthus** *Partner, Mazanec, Raskin & Ryder Co., LPA*

22 USHETHIC 1 18 WEBR LC

## 5. Timber Frame Design and Construction

Wednesday, January 19, 2022 | 9:00 am - 4:30 pm CST (incl. a 30-min break) **Tuition:** \$289

**Credits:** Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours  
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Building)

### Agenda Highlights:

Working with timber Structural frame design Roof framing and truss design  
Joinery design Putting it all together

**Presented by Jeffrey R. Hershberger** *Founder/Managing Owner of Slick Timberworks*

22 USTBRFDC 1 19 WEBR WL

## 6. Construction Cost Estimating

Thursday, January 20, 2022 | 8:30 am 4:30 pm CST (incl. a 60-min break) **Tuition:** \$289

**Credits:** Professional Engineers: 6.5 PDHs\* Architects: 6.5 Non-HSW CE Hours\*  
AIA: 6.5 LU | Elective International Code Council: .65 CEUs (Administration)  
\*Not approved for Engineers or Architects in New York

### Agenda Highlights:

Producing different types of cost estimates  
Construction estimating resources and processes  
Estimating labor, equipment, overhead and profit  
Estimating construction materials and services  
Estimating mechanical, electrical and plumbing  
Using construction estimating software

**Presented by Steve Watkins** *Senior Preconstruction Manager for BNBuilders in Seattle, WA*

22 USCCOSTE 1 20 WEBR CP

## 7. IRC Significant Changes – Chapters 11-44

Thursday, January 20, 2022 | 11:00 am - 3:30 pm CST (incl. a 30-min break) **Tuition:** \$199

**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 to the 2021 version of the International Residential Code (IRC)

- Energy conservation
- Plumbing
- Mechanical
- Fuel gas
- Electrical requirements

Relevant appendices will be reviewed. An emphasis is placed on understanding the change, why the change is important, and how it will impact future construction projects

### Presented by Jared Agee, MCP, CBO

*Director of Building and Code Enforcement for St. Charles County, Missouri*

22 USIRC114 1 20 WEBR WL

## 8. Erosion and Sediment Control

Tuesday, January 25, 2022 | 8:30 am - 5:00 pm CST (incl. a 60-min break) **Tuition:** \$289

**Credits:** Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours  
AIA: 7.0 LU|HSW Landscape Architects: 7.0 HSW CE Hours  
LA CES: 7.0 HSW PDHs Floodplain Managers: 7.0 ASFPM CECs

### Agenda Highlights:

Erosion and sediment control requirements and practices  
Goals for and selection of erosion and sediment control practices  
Non-structural erosion and sediment control best practices  
Stream and bank stabilization  
Structural erosion and sediment control practices  
Sediment traps and sediment basins  
Permanent stormwater management practices  
Operation and maintenance plans

### Presented by Jay Riggs, CPESC, CPSWQ

*Manager of the Washington Conservation District (WCD)*

22 USEROSSC 1 25 WEBR AM

## 9. Air-Source Heat Pumps, Mini-Splits, and Heat Pump Water Heaters

Wednesday, January 26, 2022 | 12:00 - 3:30 pm CST (incl. a 15-min break) **Tuition:** \$289

Thursday, January 27, 2022 | 12:00 - 3:30 pm CST (incl. a 15-min break)

**Credits:** Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours  
AIA: 6.5 LU|HSW International Code Council: .65 CEUs (Energy)

### Agenda Highlights:

Overview of systems to be covered  
Understanding how heat pumps work  
Utilizing air-source heat pumps for space heating  
Examining heat pump water heater performance for domestic hot water  
Examining air-to-water heat pumps for domestic hot water  
Pairing heat pumps with solar electric systems in net zero energy residences  
Roundup and review

### Presented by Bart Bales, PE MSME

*Principal and professional consulting engineer at Bales Energy Associates in Massachusetts*

22 USASHPM1 1 26 WEBR TB - 22 USASHPM2 1 27 WEBR TB

## 10. Seismic Design and Construction

Thursday, January 27, 2022 | 8:30 am - 5:00 pm CST (incl. a 60-min break) **Tuition:** \$289

**Credits:** Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours  
AIA: 7.0 LU|HSW International Code Council: .7 CEUs (Building)

### Agenda Highlights:

Seismology and earthquake actions Structural dynamics and response  
Modern philosophy of seismic design U.S. seismic codes  
ASCE 7 seismic design  
Material-specific seismic force resisting systems

### Presented by Jon F. Sfura, Ph.D., P.E., S.E.

*Senior Associate at Wiss, Janney, Elstner Associates, Inc. in Northbrook, Illinois*

22 USSEISDC 1 27 WEBR CP