

## Credit Information

### **The Tree Course: Science, Design, and Sustainability**

This webinar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states. It offers 6.5 HSW continuing education hours to landscape architects licensed in most states. HalfMoon Education is not seeking landscape architect approval in Florida, New Jersey, or North Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2), and §79-1.5(i)(2)).

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The International Society of Arboriculture has approved this webinar for the following CEUs: 6.5 Certified Arborist, Municipal Specialist; 5.75 Climber Specialist, Utility Specialist, Aerial Lift; 3.25 BCMA Management; 2.0 BCMA Science; 1.25 BCMA Practice.

The Society of American Foresters has approved this course for 6.5 Category 1 CFE credits.

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

### **International Building Code 2021**

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

## Live, Interactive Webinars

- The Tree Course: Science, Design, and Sustainability
- International Building Code 2021

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## Live, Interactive Webinars

### **The Tree Course: Science, Design, and Sustainability**

- Friday, December 10, 2021 | 9:00 am - 4:30 pm CST

### **International Building Code 2021**

- Friday, December 17, 2021 | 8:30 am - 5:00 pm CST

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## HalfMoon Education Live Webinars



### **The Tree Course: Science, Design, and Sustainability**

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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: 6.5 SAF Category 1 Credits  
ISA: 6.5 CEUs (Certified Arborist, Municipal Specialist)  
5.75 CEUs (Climber Specialist, Utility Specialist, Aerial Lift)  
3.25 CEUs (BCMA Management)      2.0 CEUs (BCMA Science)  
1.25 CEUs (BCMA Practice)



### **International Building Code 2021**

Friday, December 17, 2021 | 8:30 am - 5:00 pm CST

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



AIA  
Continuing  
Education  
Provider



PREFERRED  
EDUCATION  
PROVIDER



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# The Tree Course: Science, Design, and Sustainability

**Friday, December 10, 2021 | 9:00 am - 4:30 pm CST** (incl. a 30-min break)

**Tuition:** \$289 per registrant, \$239 per registrant for three or more

**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: 6.5 SAF Category 1 Credits  
ISA: 6.5 CEUs (Certified Arborist, Municipal Specialist)  
5.75 CEUs (Climber Specialist, Utility Specialist, Aerial Lift)  
3.25 CEUs (BCMA Management)    2.0 CEUs (BCMA Science)  
1.25 CEUs (BCMA Practice)

## Agenda

### The Scientific, Economic, and Aesthetic Benefits of Trees

Physical benefits	Environmental benefits
Social benefits	Health benefits
Economic benefits	

### If Trees Could Talk – The Secrets of Healthy, Mature Trees

Biology and anatomy	Soil
Roots	Oxygen
Stress	Native vs. non-native

### Trees Are Infrastructure: Design Elements that Appreciate

Placement and value	Benefits
Deforestation By Design™	Structural cells
Planning vs. design	After the job

### Trees and Site Requirements: Always at Odds?

Compaction and proctor density  
The brown infrastructure  
Screened soils: the silent killer  
Root myths  
Avoidable conflicts

### Trees that Outlive Designs: After the Project is Finished

Trees in teacups	Lifespan
Soil volume	Increasing value
Proper structure	

### Threats to Trees

Biotic and abiotic	Neglect
An ounce of prevention	Computer modeling risks

## Presented by

**John Palmer, BCMA** *PlanetCare Landscape and Arboricultural Services*

Mr. Palmer is a Consulting arborist, board certified master arborist by the International Society of Arboriculture, and an advanced Tree Risk Assessor. He is an author, speaker, and trainer, on subjects including *The Future of Urban Forestry*, *Deforestation By Design™*, *The New Construction Paradigm*, and *The Leadership Laws of Nature*. His focus is on trees in urban and construction environments, soil deficiencies and the importance of soils for sustainable mature trees, increasing urban tree canopies by ensuring trees live to maturity, and unsustainable landscape designs. His areas of expertise include young tree training, proper pruning and planting practices, biomechanics, soil and water management, urban forestry, tree biology, and healthy root system development.

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# International Building Code 2021

**Friday, December 17, 2021 | 8:30 am - 5:00 pm CST** (incl. a 60-min break)

**Tuition:** \$289 per registrant, \$239 per registrant for three or more

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

## Agenda

### Building Code Background and Application

Development of the International Building Code 2021  
Code adoption processes adoption and amendment process  
Code terminology  
Code enforcement  
Overviews of 2021 changes: new fire detection and protection provisions, new mass timber requirements, new requirements for specific occupancies

### Building Classification, Occupancy and Safety

Classification of structures	Occupancy and special uses
Fire resistance-rated construction	Fire protection systems
Doors and windows	

### Regulation of Building Components

Exterior walls	Roof assemblies
Structural design	Soils and foundations

### Use of Specific Materials and Construction Techniques

Concrete	Aluminum	Masonry
Steel	Wood	Glass and glazing

### Regulation of Interior Construction

Gypsum board and plaster	Interior finishes
Interior environment	

### Complying with Safety Requirements During Construction

Protection of workers, public and adjoining property

## Presented by

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

Mr. Agee is the director of building and code enforcement for St. Charles County, Missouri. Previously, he worked in urban and suburban municipal governments managing building code enforcement. Prior to his public sector positions, he worked in the construction industry in design and project management. Mr. Agee has an undergraduate degree in Architectural and Mechanical Design and a graduate degree in Public Administration and Policy Analysis. As a master code professional, he is one of approximately 800 people to obtain the highest level of certification from the International Code Council.

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# Additional Learning

## Moisture Control in Buildings:

**Designing, Constructing and Remodeling for Wet Weather**  
- Fri, Nov 5, 2021 | 8:30 am - 4:30 pm CDT

## Commercial Site Pavement Design, Installation and Maintenance

- Fri, Nov 5, 2021 | 8:30 am - 4:30 pm CDT

## Engineering Project Management

- Mon, Nov 8, 2021 | 8:30 am - 5:00 pm CST

## How to Think Like a Bee:

**Creating Pollinator Habitat and Helping Pollinators**

- Mon, Nov 8, 2021 | 12:00 - 1:30 pm CST

## Controlling Coastal Erosion and Creating Living Shorelines

- Tues, Nov 9, 2021 | 7:45 am - 3:15 pm CST

## Ethical Issues in Sustainable Design: Understanding and Preventing Greenwashing

- Tues, Nov 9, 2021 | 8:30 - 9:30 am CST

## How To Design Stormwater Management Systems for Residential Sites

- Wed, Nov 10, 2021 | 11:00 am - 1:00 pm CST

## National Electrical Code 2020: Grounding and Bonding

- Wed, Nov 10, 2021 | 8:30 am - 5:00 pm CST

## Deep Foundations and Excavations

- Fri, Nov 12, 2021 | 8:30 am - 5:00 pm CST

## HVAC Primer for Design Professionals

- Fri, Nov 12, 2021 | 8:30 am - 4:30 pm CST

## IRC Significant Changes – Chapters 11-44

- Fri, Nov 12, 2021 | 11:00 am - 3:30 pm CST

## Stream Restoration for Design Professionals

- Fri, Nov 12, 2021 | 9:00 am - 4:30 pm CST

## The Arborist Short Course: Advanced Tree Knowledge for Better Tree Care

- Tues, Nov 16, 2021 | 9:00 am - 4:30 pm CST

## Construction Cost Estimating

- Tues, Nov 16, 2021 | 7:30 am - 3:30 pm CST

## Introduction to HEC-RAS Modeling

- Tues, Nov 16, 2021 | 8:30 am - 5:00 pm CST

## Current Issues in the Practice of Geoscience

- Thurs, Nov 18, 2021 | 8:30 am - 4:00 pm CST

## Focusing on the Legal Ramifications of Drone Use for Utilities

- Fri, Nov 19, 2021 | 10:00 am - 12:00 pm CST

## Septic System Design, Construction and Maintenance

- Fri, Nov 19, 2021 | 8:30 am - 4:30 pm CST

## Designing and Constructing a Net-Zero Energy Home in the Midwest

- Mon, Nov 22, 2021 | 8:30 am - 1:00 pm CST

- Tues, Nov 23, 2021 | 8:30 am - 1:30 pm CST

## Special Inspections under the International Building Code Chapter 17

- Mon, Nov 29, 2021 | 10:00 am - 2:30 pm CST

- Tues, Nov 30, 2021 | 10:00 am - 1:15 pm CST

## The Value and Practice of Biophilic Design

- Tues, Nov 30, 2021 | 10:30 am - 12:30 pm CST

- Tues, Dec 7, 2021 | 10:30 am - 12:30 pm CST

- Tues, Dec 21, 2021 | 10:30 am - 12:30 pm CST

## Arc Flash Update NFPA 70E 2021

- Wed Dec 1, 2021 | 9:00 am - 1:40 pm CST

- Thurs Dec 2, 2021 | 9:00 am - 1:40 pm CST

## Residential Accessibility:

**Designing for Multi-Family Housing**

- Wed, Dec 1, 2021 | 8:30 am - 12:15 pm CST

- Thurs, Dec 2, 2021 | 8:30 am - 12:15 pm CST

## Geothermal Heating and Cooling: Technology, Applications, and Economics

- Tues, Dec 7, 2021 | 9:30 am - 5:00 pm CST

## Aerial Mapping Technologies and Procedures

- Mon, Dec 13, 2021 | 8:30 am - 5:00 pm CST

## Engineered Lumber Design and Construction

- Mon, Dec 13, 2021 | 8:30 am - 12:10 pm CST

- Tues, Dec 14, 2021 | 8:30 am - 12:10 pm CST

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