

## Credit Information

### The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys

This webinar is open to the public and offers 6.0 PDHs to professional engineers and land surveyors in most states. HalfMoon Education is not seeking approval for land surveyors licensed in Delaware, New Jersey or Rhode Island.

This educational activity has been evaluated and accredited by The Practicing Institute of Engineering for 6.0 PDHs. It is deemed approved for New York Engineers and Land Surveyors via this accreditation (Regulations of the Commissioner §68.14(i)(2)).

The Florida Department of Agriculture and Consumer Services has assigned this course number 10210 for Florida surveyors.

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 an approved continuing education sponsor for land surveyors licensed in Indiana (License No. CE21700059), Maryland and North Carolina (S-0130).

### Metes and Bounds Land Description Workshop

This webinar is open to the public and offers 5.0 PDHs to professional engineers and land surveyors in most states. Land surveyor course approval is currently pending in Tennessee. HalfMoon Education is not seeking approval for land surveyors licensed in Delaware, New Jersey, New York or Rhode Island, or for engineers licensed in New York.

The Florida Department of Agriculture and Consumer Services has assigned this course number 10182 for Florida surveyors.

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 an approved continuing education sponsor for land surveyors licensed in Indiana (License No. CE21700059), Maryland and North Carolina (S-0130).

### Current Issues for Land Surveyors

This webinar is open to the public and offers 6.0 PDHs to professional engineers and land surveyors in most states. Land surveyor course approval is currently pending in Missouri and Tennessee. HalfMoon Education is not seeking approval for land surveyors licensed in Delaware, New Jersey, New York or Rhode Island, or for engineers licensed in New York.

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).

The Florida Department of Agriculture and Consumer Services has assigned this course number 10213 for Florida surveyors.

HalfMoon Education is an approved continuing education sponsor for land surveyors licensed in Indiana (License No. CE21700059), Maryland and North Carolina (S-0130).

### Using the U.S. Public Land Survey System

This webinar is open to the public and offers 4.0 PDHs to professional engineers and land surveyors in most states. Land surveyor course approval is currently pending in Tennessee. HalfMoon Education is not seeking approval for land surveyors licensed in Delaware, New Jersey or Rhode Island.

This educational activity has been evaluated and accredited by The Practicing Institute of Engineering for 6.0 PDHs. It is deemed approved for New York Engineers and Land Surveyors via this accreditation (Regulations of the Commissioner §68.14(i)(2)).

The Florida Department of Agriculture and Consumer Services has assigned this course number 10202 for Florida surveyors.

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**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).**

## January Land Surveying Webinars

- The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys
- Metes and Bounds Land Description Workshop
- Using the U.S. Public Land Survey System
- Current Issues for Land Surveyors

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## Live, Interactive Webinars

### **The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys**

- Wednesday, January 12, 2022 | 8:30 am - 3:20 pm CST

### **Metes and Bounds Land Description Workshop**

- Tuesday, January 18, 2022 | 10:00 am - 4:00 pm CST

### **Current Issues for Land Surveyors**

- Monday, January 24, 2022 | 8:30 am - 3:30 pm CST

### **Using the U.S. Public Land Survey System**

- Wednesday, January 26, 2022 | 9:00 am - 1:30 pm CST

**To register, view detailed presenter biographies, and see other learning opportunities, please visit:**

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## HalfMoon Education Live Webinars

# January Land Surveying Webinars



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or call our Customer Service Department at (715) 835-5900



# The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys

Wednesday, January 12, 2022 | 8:30 am - 3:20 pm CST (incl. a 30-min break)

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

**Credits:** Professional Engineers: 6.0 PDHs  
Land Surveyors: 6.0 PDHs, 6.0 Florida CE Credits  
(NJ, RI, DE – No Credit Offered)

## Agenda

Purpose and development of ALTA/NSPS Land Title Survey

- Elements of ALTA/NSPS Land Title Survey

Ordering the survey

Surveying standards and standards of care

- Effective date
- Normal standard of care
- Measurement standards
- Other requirements and standards of practice
- Boundary establishment
- Records research

Fieldwork

- Monuments
- Lines of possession and improvements along boundaries
- Buildings
- Cemeteries
- Rights of way and access
- Easements and servitudes
- Water features

Preparation of the plat/map of ALTA/NSPS Land Title Survey

- Fieldwork
- Easements, servitudes, rights of way, access, documents
- Presentation
- Boundary, description, dimensions, closures

Certification

Deliverables

Preface

Items 1-19

Item 20

22 USMS4LTS 1 12 WEBR LH

# Metes and Bounds Land Description Workshop

Tuesday, January 18, 2022 | 10:00 am - 4:00 pm CST (incl. two 30-min break)

Tuition: \$239 per registrant, \$199 per registrant for three or more

**Credits:** Professional Engineers: 5.0 PDHs (does not qualify for NY engineering credit)  
Land Surveyors: 5.0 PDHs, 6.0 Florida CE Credits, 5.0 Tennessee CE Credits  
(NY, NJ, RI, DE – No Credit Offered)

## Agenda

### Working with Metes and Bounds Descriptions

History of land descriptions in the U.S.

Basic land description concepts:

- Terminology
- Circular curves
- Bearings
- Mathematical closure
- Distances
- State plane coordinates

Monuments, natural and artificial boundaries

Reading and interpreting a metes and bounds description

### Metes and Bounds Workshop: Writing, Drawing and Locating Descriptions

Writing a description

Drawing a description

Software for mapping, drawing and locating described lands

### Handling Special Issues in Metes and Bounds Descriptions

Combination descriptions

“Of” descriptions

Aliquot descriptions

Exceptions and reservations

Water boundaries

Easements and other access rights

22 USMABLDW 1 18 WEBR AM

# Current Issues for Land Surveyors

Monday, January 24, 2022 | 8:30 am - 3:30 pm CST (incl. a 30-min break)

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

**Credits:** Professional Engineers: 6.0 PDHs (does not qualify for NY engineering credit)  
Land Surveyors: 6.0 PDHs, 6.0 Florida CE Credits  
(MO, TN Pending Approval; NY, NJ, RI, DE – No Credit Offered)

## Agenda

### NGS Modernization of the NSRS: Overview of the Datum Changes

*J. Jalbrzikowski*

Why modernize and what modernization means

Terrestrial reference frames to replace NAD 83

Geopotential aka vertical datum changes

Types of coordinates in the modernized NSRS

### 2021 ALTA/NSPS Land Title Survey Update

*G. Kent*

Purpose and development of ALTA/NSPS Land Title Survey

- Elements of ALTA/NSPS land title survey

Ordering the survey

Surveying standards and standards of care

- Effective date
- Measurement standards

Records research

Fieldwork

- Lines of possession and improvements along boundaries
- Easements and utilities

Preparation of the plat/map of ALTA/NSPS Land Title Survey

- Easements, servitudes, rights-of-way, access, documents

Certification

Table A: Preface

- Items 6, 11, 18, 19, 20

### Land Surveying and Geographic Information Systems

*R. Olsen*

Definitions and distinctions: Surveying and GIS

Licensing and certifications in GIS and surveying

Utilizing GIS for survey project planning

Surveying control for ground truth in GIS

Geographic coordinate data base (GCDB): Its uses in GIS and surveying

### Surveying On or Near Public Lands

*R. Olsen*

The colonial system and the Public Land Survey System (PLSS): A brief history

The 2009 Manual of Surveying Instructions

- Differences with prior instructions

Certified federal surveyor (CFedS): Requirements and duties

County surveyors, state surveyors, and surveyor commissions

Surveys that disclose vacancies or other unsurveyed land

22 USCILNDS 1 24 WEBR TB

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# Using the U.S. Public Land Survey System

Wednesday, January 26, 2022 | 9:00 am - 1:30 pm CST (incl. two 15-min breaks)

Tuition: \$199 per registrant

**Credits:** Professional Engineers: 4.0 PDHs  
Land Surveyors: 4.0 PDHs, 4.0 Florida and Missouri CE Credits  
(TN Pending Approval; NJ, RI, DE – No Credit Offered)

## Agenda

### Metes and Bounds and What Came

#### Before the US Public Land Survey System (PLSS)

Basic land description concepts: distances, directions, circular curves, mathematical closure, state plane coordinates

Reading a metes and bounds description

### Basics of the U.S. Public Land Survey System (PLSS)

The Northwest Ordinance

Principal meridians and baselines

The basic building blocks of the PLSS

The township, ranges and sections

Numbering sections

Irregular sections and aliquot parts

### Describing and Locating Lands in the PLSS

“Part of” descriptions

Reading a PLSS description

Writing a description

Websites for mapping and locating described lands

22 USUSPLSS 1 26 WEBR AM

# Faculty

## The 2021 Minimum Standards for ALTA/NSPS Land Title Surveys

**Gary Kent** *Schneider Geomatics in Indianapolis*

## Metes and Bounds Land Description Workshop

**Steven K. Lemke, PLS, PE**

*Executive Director, Lemke Land Surveying (a division of Parkhill, Smith, & Cooper, Inc.)*

## Current Issues for Land Surveyors

**Jeff Jalbrzikowski, P.S., GISP, CFS**

*Appalachian Regional Advisor for the National Geodetic Survey*

**Gary Kent** *Schneider Geomatics in Indianapolis*

**Russell W. Olsen**

*Senior Professional Land Surveyor with Engineering Design Source, Inc.*

## Using the U.S. Public Land Survey System

**J. Cole Helfrich** *Craig R. Knoche & Associates, P.C*

(See course listings online for full presenter biographies)

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