Learning Objectives

You’ll be able to:

**Identify** the levels of construction cost estimates, including design development, construction document and bid level estimates.

**Discuss** the estimating process and explore data resources.

**Estimate** labor equipment and overhead costs.

**Get** tips on estimating construction materials and services, including earthwork, concrete, wood, steel, plumbing and mechanical systems.

**Learn** about using construction estimating software.

## Agenda

**Presented by Scott Lovedahl CPE**

**Producing the Five Levels of Cost Estimates**
- Order of magnitude (Level One)
- Schematic or conceptual design (Level Two)
- Design development (Level Three)
- Construction document (Level Four)
- Bid level (Level Five)
- Independent Government Estimate (IGE)

**Construction Estimating Resources and Processes**
- Estimating process
- CSI MasterFormat vs. CSI UniFormat
- Shell vs. tenant improvement breakdown
- Data resources

**Estimating Labor, Equipment, Overhead and Profit**
- Estimating labor costs
- Estimating for construction equipment costs
- Estimating overhead costs
- Estimating profit

**Estimating Construction Materials and Services**
- Earthwork and excavation
- Pavements
- Concrete structures
- Wood structures
- Steel structures
- Masonry
- Floors
- Roofing
- Interiors
- Finishes

**Estimating Mechanical, Electrical and Plumbing**
- Plumbing
- Mechanical
- Electrical

**Using Construction Estimating Software**
- Review of industry-standard software

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**Construction Cost Estimating**

Albuquerque, NM - Friday, September 21, 2018

**Review** the five levels of cost estimates

**Explore** construction estimating resources and processes

**Learn** how to estimate labor, equipment, overhead and profit

**Examine** the process of estimating construction materials and services, including concrete, wood, steel, masonry and roofing

**Get** tips on estimating mechanical, electrical and plumbing on construction projects

**Learn** how to use construction estimating software

**Continuing Education Credits**

<table>
<thead>
<tr>
<th>Professional Engineers</th>
<th>Contractors</th>
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<td>6.5 PDHs</td>
<td>Non-Credit Continuing Ed.</td>
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<td>6.5 AIA HSW Learning Units</td>
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Mr. Lovedahl has been employed as a construction manager and estimator for GSA, responsible for developing cost estimating and superintendent activities. Mr. Lovedahl is a current member of the American Society of Professional Estimators (ASPE) and a part-time instructor for the Central New Mexico (CNM) Community College in their Applied Technology Construction Management program.

Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for $289 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Additional Learning

Webinar Series

Community Solar and Rooftop Solar
- Community Solar
  Wed., Sept. 5, 2018, 11:00 AM - 2:15 PM CDT
- Design Your Solar Roof
  Thurs., Sept. 6, 2018, 11:00 AM - 2:15 PM CDT

Seismic Design and Construction
- Seismology and Building Codes
  Wed., Sept. 12, 2018, 11:00 AM - 3:30 PM CDT
- Seismic Design of Building Structures
  Thurs., Sept. 13, 2018, 11:00 AM - 3:30 PM CDT

Small Wind Energy Systems
- Small Wind Energy System Components
  Thurs., Sept. 20, 2018, 11:00 AM - 1:00 PM CDT
- Small Wind Energy Sizing and Siting
  Fri., Sept. 21, 2018, 11:00 AM - 1:00 PM CDT

International Green Construction Code
- Introduction to the International Green Construction Code (IgCC)
  Thurs., Sept. 20, 2018, 11:00 AM - 12:30 PM CDT
- Chapters 4-5: Site Development and Material Use
  Thurs., Sept. 20, 2018, 1:00 - 2:30 PM CDT
- Chapters 6-9: Energy, Water, Environmental Quality and Building Commissioning
  Fri., Sept. 21, 2018, 11:00 AM - 12:30 PM CDT
- Chapters 10-11: Existing Buildings
  Fri., Sept. 21, 2018, 1:00 - 2:30 PM CDT

Slope Stabilization and Landslide Prevention
- Analyzing the Stability of Slopes
  Tues., Sept. 25, 2018, 11:00 AM - 2:15 PM CDT
- Slope Stabilization Methods
  Thurs., Sept. 27, 2018, 11:00 AM - 2:15 PM CDT

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Registration

Construction Cost Estimating
Albuquerque, NM - Friday, September 21, 2018

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