

Agenda

Presented by Daniel Frondorf, CPE, CDT

Producing Different Types of Cost Estimates

Purposes of and methodologies for cost estimates

- Design estimate
- Bid estimate
- Control estimate

Construction Estimating Resources and Processes

Estimating team
Estimating process
Data resources
CSI Masterformat

Estimating Labor, Equipment, Overhead and Profit

Estimating labor costs
Estimating for construction equipment costs
Estimating overhead costs
Estimating profit

Analyzing Risk, Managing Subcontractors, and Human Interaction as Part of the Estimating Process

Estimators as risk identifiers and mitigators
Soliciting, receiving, and reviewing subcontractor and vendor quotes
How human nature impacts our work as estimators

Group Estimating Exercises

Work together in teams to estimate the costs of different components of a single construction project; teams will perform quantity takeoffs and develop cost estimates for excavation, concrete footers, and masonry walls

Using Construction Estimating Software

Review of industry-standard software for quantity takeoffs of one, two, and three dimensional units, PDF creation and manipulation, and spreadsheet based cost estimating templates

Construction Cost Estimating

Charleston, WV - Wednesday, October 23, 2019



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Learning Objectives

You'll be able to:

Define the purposes of and methodologies for cost estimates, including the need to have cost estimates to accurately plan project budgets and allocate sufficient resources to project phases, and the need to protect the owner and contractors from unanticipated costs which could prevent the project from being completed as planned.

Estimate labor and equipment costs on projects, enabling the project manager to allocate adequate manpower and equipment to the project to keep it on schedule, and allowing the owner to take possession of the building on schedule and on budget.

Review subcontractor and vendor cost estimates and quotes, protecting the project by ensuring the accuracy of subcontracted estimates and ensuring the quality of materials and construction processes.

Participate in group estimating exercises, working as a team to identify all the costs associated in a construction project and to identify appropriate materials, construction processes and costs necessary to meet quality standards, time constraints and the budget limitations.



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Compare different types of cost estimates

Explore construction estimating resources and processes

Learn how to estimate labor, overhead costs, materials and profit

Analyze risk and manage subcontractors as part of the estimating process

Review construction cost estimating software and participate in a hands-on cost estimating exercise

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 Continuing Ed. Hours (HSW)

6.5 AIA LU|HSW

Contractors

Non-Credit Continuing Ed.



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Faculty

Daniel Frondorf, CPE, CDT *DG Frondorf and Associates LLC, Cincinnati*

Mr. Frondorf owns and operates Cincinnati-based DG Frondorf and Associates LLC, a construction cost estimating consulting firm. Dan is a member of Consulting Estimators Round Table (CERT), AACE, and the American Society of Professional Estimators (ASPE). He has 22 years of service as a construction estimator, and he has presented several seminars on estimating practices and ethical bidding topics to trade associations and at industry events.

Dan is also a past instructor of construction estimating at the University of Cincinnati and has guest lectured there and at Cincinnati State Technical and Community College. He has also written several articles on estimating related-topics in *Estimating Today* and *Design Cost Data* magazines.

Here’s what past attendees had to say about the program and presenter Dan Frondorf:

“Excellent presenter! Very knowledgeable with time for discussions, Q/A & relevant real-world examples.” — *Civil Engineer*

“Great wealth of knowledge and proven experience.” — *General Contractor Project Manager*

“Presented the topic well.” — *Architect*

Seminar Information

Four Points by Sheraton Charleston 600 Kanawha Blvd. East Charleston, WV 25301 (304) 344-4092	Registration 8:00 - 8:30 am Morning Session 8:30 am - 12:00 pm	Lunch (On your own) 12:00 - 1:00 pm Afternoon Session 1:00 - 4:30 pm
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Tuition
\$289 for individual registration
\$269 for three or more registrations.

Each registration includes a complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Additional Learning

Webinar Series
Commercial Solar Peaker Batteries

- **Commercial Solar Peaker Batteries, Part I**
Wed., Sept. 4, 2019, 11:00 AM - 2:15 PM CDT
- **Commercial Solar Peaker Batteries, Part II**
Thurs., Sept. 5, 2019, 11:00 AM - 2:15 PM CDT

Commercial Provisions of the International Energy Conservation Code

- **Commercial Provisions of the International Energy Conservation Code**
Wed., Sept. 11, 2019, 11:00 AM - 1:00 PM CDT
- **IECC Provisions for Commercial Building Envelopes**
Wed., Sept. 11, 2019, 1:30 - 4:00 PM CDT
- **IECC Provisions for Commercial Building HVAC Systems**
Thurs., Sept. 12, 2019, 11:00 AM - 12:00 PM CDT
- **IECC Provisions for Commercial Building Lighting**
Thurs., Sept. 12, 2019, 12:30 - 2:00 PM CDT

International Building Code

- **Building Code, Building Classification and Special Requirements**
Thurs., Sept. 12, 2019, 11:00 AM - 12:30 PM CDT
- **Mixed Use Buildings, Construction Types and Locations**
Thurs., Sept. 12, 2019, 1:00 - 2:30 PM CDT
- **Allowable Heights/Areas and Means of Egress**
Fri., Sept. 13, 2019, 11:00 AM - 12:30 PM CDT
- **Fire Rated Construction and Fire Protection Systems**
Fri., Sept. 13, 2019, 1:00 - 2:30 PM CDT

Tree Preservation

- **Keys for Success in Tree Preservation**
Tues., Sept. 17, 2019, 11:00 AM - 1:00 PM CDT
- **Tree Root Morphology and Patterns**
Tues., Sept. 17, 2019, 1:30 - 3:30 PM CDT
- **Trees as Design Elements and Construction Strategies**
Wed., Sept. 18, 2019, 11:00 AM - 1:00 PM CDT
- **Tree Protection and Post Construction**
Wed., Sept. 18, 2019, 1:30 - 3:30 PM CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW (Public Protection) continuing education hours to architects in all states. Educators and courses are not subject to preapproval in West Virginia.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU|HSW (Sponsor No. J885). Only full attendance can be reported to the AIA/CES. Visit www.halfmoonseminars.org to view complete AIA/CES information under this course listing.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

This seminar offers a non-credit continuing education opportunity to construction contractors. It has not been reviewed by any state contractor licensing entity for continuing education purposes.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!

Audio recordings of this seminar are available for purchase starting at \$269. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	Name: _____ Occupation: _____ Email: _____ Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____ Occupation: _____ Email: _____ Phone: _____
Complete the entire form. Attach duplicates if necessary.	Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
() I need special accommodations. Please contact me.	

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$269.00** each.

() **I am not attending.** Please send me the self-study package:

☐ Downloadable MP3 Audio/PDF Manual for **\$269.00**.

☐ CD/Manual Package for **\$289.00**.

(Please allow four weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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