

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

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
Electrical systems
Mechanical systems

Cost Estimating Exercise/Software Demo

Construction Cost Estimating
Columbus, OH - Friday, August 10, 2018

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PO Box 278
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Learning Objectives

You'll be able to:

Identify the purposes of and methodologies for different cost estimates such as design, bid and control estimates.

Utilize data resources and CSI MasterFormat to create estimates.

Estimate construction material and service costs such as excavation, masonry, roofing and finishes.

Review procedures for estimating costs related to plumbing, electrical and mechanical systems.

Use industry standard software to estimate construction costs.



Construction Cost Estimating

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Understand the methodologies for different types of cost estimates

Explore construction estimating resources and processes

Learn how to estimate labor, materials, overhead and profit

Discuss electrical, mechanical and plumbing cost estimates

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

Continuing Education Credits

Professional Engineers

6.5 CPD Hours/PDHs

Contractors

Non-Credit Continuing Ed.

Architects

6.5 HSW PDHs

6.5 AIA HSW Learning Units



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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. He is a member of Consulting Estimators Round Table (CERT), AACE, and the American Society of Professional Estimators (ASPE), and he has 22 years of service as a construction estimator. He has presented several seminars on estimating practices and ethical bidding topics to trade associations and at industry events.

Mr. Frondorf 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 Daniel Frondorf:

- “Like the simple straight-forward approach!!” – *Construction manager*
- “Great presenter and excellent topic.” – *Civil engineer*
- “Great instructor, excellent coverage of subject sections with active attendee participation.” – *Professional engineer*

Seminar Information

Quest Conference Center
8405 Pulsar Place
Columbus, OH 43240
(614) 540-5540

Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.
Each registration includes a complimentary continental breakfast and printed seminar manual.

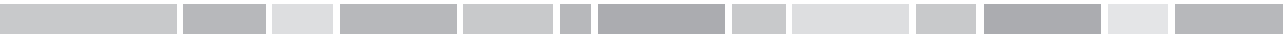
Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

- 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 CD/manual package. You may also send another person to take your place.

**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.



Continuing Education Credit Information

This live lecture presentation is open to the public and offers 6.5 CPD hours/PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Ohio.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is deemed an approved continuing education sponsor for New York architects. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

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

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.

Additional Learning

Webinar Series

Solar Photovoltaic Project Design and Development

- **Solar Photovoltaic Project Design and Development Part 1**
Thurs., July 5, 2018, 11:00 AM - 2:15 PM CDT
- **Solar Photovoltaic Project Design and Development Part 2**
Fri., July 6, 2018, 11:00 AM - 2:15 PM CDT

AutoCAD 3D

- **Using Key Commands and Tools**
Part I: Wed., July 11, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 12, 2018, 11:00 AM - 2:15 PM CDT
- **Building a Solid Model**
Part I: Wed., July 18, 2018, 11:00 AM - 2:15 PM CDT
Part II: Thurs., July 19, 2018, 11:00 AM - 2:15 PM CDT

Septic Systems Series

- **Onsite Wastewater Treatment Technologies, Regulations and Contaminant Removal**
Thurs., July 19, 2018, 11:00 AM - 12:30 PM CDT
- **Evaluating Sites, Setting Treatment Goals and System Design**
Thurs., July 19, 2018, 1:00 - 2:30 PM CDT
- **Alternative and Sustainable Treatment Technologies**
Fri., July 20, 2018, 11:00 AM - 12:30 PM CDT
- **Management Programs for Onsite Wastewater Treatment Systems**
Fri., July 20, 2018, 1:00 - 2:30 PM CDT

Retaining Walls and Slope Stabilization

- **Retaining Wall Basics**
Thurs., July 26, 2018, 11:00 AM - 12:00 PM CDT
- **Geosynthetics and Retaining Walls**
Thurs., July 26, 2018, 12:30 - 3:00 PM CDT
- **Slope Stability and Geosynthetics**
Fri., July 27, 2018, 11:00 AM - 12:30 PM CDT
- **Slope and Retaining Wall Failures, Fixes and Prevention**
Fri., July 27, 2018, 1:00 - 3:00 PM CDT

National Electrical Code

- **National Electrical Code, Part I**
Tues., July 24, 2018, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part II**
Weds., July 25, 2018, 11:00 AM - 3:30 PM CDT
- **National Electrical Code, Part III**
Thurs., July 26, 2018, 11:00 AM - 3:30 PM CDT

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

Construction Cost Estimating

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
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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 - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.
- () **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

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Credit Card Number: _____
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