

# 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  
 Fargo, ND - Friday, March 8, 2019



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## Learning Objectives

### You'll be able to:

**Identify** the purpose and methodologies for different cost estimates such as design, bid and control estimates.

**Utilize** data resources and CSI MasterFormat to create estimates.

**Understand** how human nature impacts the estimating process.

**Estimate** labor, equipment, overhead costs and profit.

**Perform** takeoffs for excavation and concrete work.

**Learn** about industry standard software for estimating construction costs.



# Construction Cost Estimating

Fargo, ND - Friday, March 8, 2019



**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 HSW Continuing Ed. Hours

6.5 AIA HSW Learning Units

### 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 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

<b>Radisson Hotel</b> 201 5th Street North Fargo, ND 58102 (701) 232-7363	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 simultaneous registrations.

**Included with your registration:** *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](http://www.halfmoonseminars.org).

## How to Register

- Visit us online at [www.halfmoonseminars.org](http://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 (CDT), 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.

# Additional Learning

## Webinar Series

### Off-Grid Master Class

- **Off-Grid Master Class, Part I**  
Wed., Feb. 6, 2019, 11:00 AM -2:15 PM CST
- **Off-Grid Master Class, Part II**  
Thurs., Feb. 7, 2019, 11:00 AM -2:15 PM CST

### Complying with ADA Standards for Accessible Design

- **Complying with Federal and State Accessibility Requirements**  
Thurs., Feb. 7, 2019, 11:00 AM -1:30 PM CST
- **Meeting Requirements in IBC and ADA Standards**  
Fri., Feb. 8, 2019, 11:00 AM -1:30 PM CST

For more information and other online learning opportunities visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

### Special Inspections

- **Introduction to Chapter 17: Special Inspections**  
Wed., Feb. 13, 2019, 11:00 AM -12:30 PM CST
- **Soils and Foundations**  
Wed., Feb. 13, 2019, 1:00 -2:30 PM CST
- **Reinforced Concrete and Structural Steel**  
Thurs., Feb. 14, 2019, 11:00 AM -12:30 PM CST
- **ACT Ceiling Grid, Epoxy Anchors, and Fire Penetrations**  
Thurs., Feb. 14, 2019, 1:00 -2:30 PM CST

### Foundations in Cold Regions

- **Introduction to Cold Regions Foundations**  
Thurs., Feb. 21, 2019, 11:00 AM -12:30 PM CST
- **Shallow Foundation Design in Cold Regions**  
Thurs., Feb. 21, 2019, 1:00 -2:30 PM CST
- **Deep Foundation Design in Cold Regions**  
Fri., Feb. 22, 2019, 11:00 AM -12:30 PM CST
- **Foundation Construction in Cold Regions**  
Fri., Feb. 22, 2019, 1:00 -2:00 PM CST

## Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers in all states. It also offers a continuing education opportunity to North Dakota architects (non-mandatory). HalfMoon Education is an approved continuing education sponsor for North Dakota professional engineers.

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 an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP0000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

This seminar also offers a non-credit continuing education opportunity for construction contractors; it has not been approved by any licensing entities for contractors.

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 the Audio from the Live Seminar as a Self-Study Package!

An audio recording of this seminar is available for \$289. Allow four 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.

# Registration

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<b>How to Register</b>	<b>Registrant Information</b>
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
<b>Phone:</b> 715-835-5900	<b>Additional Registrants:</b> Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Fax:</b> 715-835-6066	Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____ Occupation: _____ Email: _____ Phone: _____
<b>Complete the entire form.</b> 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 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.

**Credit Card:** *Mastercard, Visa, American Express, or Discover*

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