

Agenda

Presented by Daniel G. Frondorf and Jake Ortego

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
State College, PA - Thursday, June 13, 2019



Halfmoon Education Inc.
PO Box 278
Altoona, WI 54720-0278

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

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.

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

State College, PA - Thursday, June 13, 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.



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG



Faculty

Jake Ortego *Co Founder, Partner at JACEA*

Mr. Ortego is a licensed mechanical engineer with over 24 years of experience in all phases of the design-construction process and extensive involvement in project controls, project management and engineering management of industrial and commercial projects. Prior to starting JACEA, he served as the vice president of construction consulting for Commercial Cost Control, Inc., Mr. Ortego also held a position with Deloitte's Construction Advisory Group and spent more than seven years in consulting engineering with Eichleay Engineers and SNC-Lavalin in Pittsburgh. During this time, he spent two years managing an engineering office in the Philippines that focused on new construction and facility upgrades for commercial and institutional work. Mr. Ortego also has significant experience in project controls, including schedule management, cost engineering, progress audits and bid evaluations. He has prepared and published numerous white papers and presentations on construction auditing and construction cost control. Mr. Ortego has conducted management and financial controls assessments of significant capital projects with a goal of improving performance and mitigating strategic and operational risks. Additionally, he has developed and implemented financial and project controls, as well as policies and procedures for the design-procurement-construction process. He has performed project controls and project management for projects between \$50MM to \$1.2B.

Daniel G. 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). Mr. Frondorf has 24 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. He 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. Mr. Frondorf has also written several articles on estimating related-topics in *Estimating Today* and *Design Cost Data* magazines.

Seminar Information

Toftrees Golf Resort & Conference center

One Country Club Lane
State College, PA 16803
(814) 234-8000

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.

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 (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.

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

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 continuing education hours to architects in all states. Educators and courses for Pennsylvania engineers are not subject to pre-approval.

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.

The New York State Education Department considers courses as approved for New York State mandatory continuing education for professional engineers if the sponsor's courses are approved by the American Institute of Architects Continuing Education System **and** are in approved subject areas.

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 architects.

This program offers a non-credit continuing education opportunity to construction contractors. It has not been submitted to any state contractor licensing entity for continuing education approval.

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 I**
Wed., May 1, 2019, 11:00 AM - 2:30 PM CDT

• **Solar Photovoltaic Project Design and Development, Part II**
Thurs., May 2, 2019, 11:00 AM - 2:30 PM CDT

Passive House: Planning and Design

• **Energy Efficiency of Conventional Construction**
Thurs., May 9, 2019, 11:00 AM - 12:00 PM CDT

• **Passive House Standard: Purpose, Principles and Development**
Thurs., May 9, 2019, 12:30 - 2:00 PM CDT

• **Architectural Elements of Passive Houses**
Fri., May 10, 2019, 11:00 AM - 12:30 PM CDT

• **Mechanical Systems in Passive Houses**
Fri., May 10, 2019, 1:00 - 2:30 PM CDT

Erosion and Sediment Control

• **Soils and Causes of Erosion**
Thurs., May 16, 2019, 11:00 AM - 12:00 PM CDT

• **Goals for Selection of Erosion and Sediment Control Practices**
Thurs., May 16, 2019, 12:30 - 1:30 PM CDT

• **Calculations for Determining Soil Loss and Channel Stabilization**
Fri., May 17, 2019, 11:00 AM - 12:00 PM CDT

• **Non-Structural Erosion and Sediment Control Best Practices**
Fri., May 17, 2019, 12:30 - 1:30 PM CDT

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

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

Construction Cost Estimating

State College, PA - Thursday, June 13, 2019

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.

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

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____