

Agenda

Understanding & Evaluating Construction Cost Estimates

Introduction

How Do You Know?

Time spent on summary & analysis	Estimate summary
Level 5 estimating analysis	Keep asking “why?” or “how do you know?”
Show your work!	Case study

Detailed Analysis

Thinking scientifically	Estimating errors	Estimating basics
Labor	Indirect construction costs	Other project costs
If you can't explain it simply...		

Burden

What's burden include?	Burden calculations
Why do we care?	Fun with numbers

Match Game

Analyzing multiple estimates	A sensible list
“Normalizing”	Case study

Xactimate

Insurance industry standards	Pros
Cons	PFCS position

Budgeting & Estimating for Construction, Maintenance, Repairs & Claims

Order of Magnitude (PFCS Level 1)

Case study: Otto's outhouse	10 steps: level 1
Case study: multi-family residential	Case study: commercial
Case study: Your room using uniformat	

Putting It All Together

10-steps summary	5 levels – 10 steps	
Decide on the level of detail	A sensible list	Estimate set-up
Relating the parts	Resources	Estimate backup

Conceptual & Preliminary (PFCS Levels 2-3)

10 steps: Level 2, level 3	Construction cost flow chart
Using the estimate components	Estimate details
Quantity take off (QTO)	Case study: Otto's outhouse

Detailed & Bid/Construction/Trial (PFCS Levels 4-5)

10 steps: level 4, level 5	Detailed estimating
Refine the estimate: many passes	Peer review
Case study: Thompson Gardens	Case study: Cuban's manor

Conclusion

Estimating is a skill and profession	Estimator certification	
Learning objectives	Back-up material	Homework

Construction Cost Estimating

Orlando, FL - Tuesday, July 23, 2019
Miami, FL - Thursday, July 25, 2019



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

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Learning Objectives

You'll be able to:

Understand the principles and tools of estimating.

Explore the process of estimating.

Budget and estimate for construction, maintenance, repairs and claims.

Examine different estimate levels, including order of magnitude, conceptual, preliminary, detailed and bid/construction.

Consider case studies and real world examples of construction cost estimates.



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Understand how to analyze and summarize a construction cost estimates

Budget and estimate for construction, maintenance, repairs and claims

Discuss preliminary, detailed and bid/construction estimates

Review case studies and real world examples of construction cost estimates

Continuing Education Credits

Engineers

6.5 FL Area of Practice CE Hours

Architects

6.5 Florida HSW
6.5 AIA LU|HSW



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Faculty

Pete Fowler *Professional Cost Estimator, Pete Fowler Construction Services, Inc.*
Mr. Fowler is a construction consultant, professional cost estimator, and president of Pete Fowler Construction Services, Inc. (PFCS), a licensed general building contractor in California and Oregon. He received a B.S. degree in Construction Management from California State University, Chico. He has held certifications from AAMA, ASPE, ICBO, and others. Mr. Fowler has published articles in national magazines, and has been invited to speak by the most important groups in the building industry (AAMA, APRA, ASPE, ASTM, BETEC, CAI, ICC, NIBS, RCI, etc.). He also has experience with successful expert witness testimony, including in Federal Court.

Alex Prokop *Construction Consultant, Pete Fowler Construction Services, Inc.*
Mr. Prokop is a senior consultant with over 20 years of experience in residential and commercial construction. He has acted as a general contractor on custom residential projects and as director of construction on a variety of large-scale residential master plan communities, commercial projects, and urban mixed-use developments. Throughout his career, Mr. Prokop has managed architectural departments, purchasing teams, and field operations for national and regional development companies, including type I and type II construction in urban environments. He has provided consulting services for LEED projects, Build-It-Green residential communities, cost estimating, and project management services. In addition to having a B.S. degree in Construction

Management, Mr. Prokop is a general contractor, LEED AP, and Certified Green Building Professional. He periodically delivers seminars on topics relating to building codes, building performance analysis and repair strategies.

Marc Viau *Construction Consultant, Pete Fowler Construction Services, Inc.*
Mr. Viau has run his own consulting business for over 20 years, bringing 48 years of hands-on building and development experience to bear in assessing damaged homes, commercial buildings and all aspects of construction. Regularly called in to render opinions on behalf of attorneys, insurance companies, home owners, and contractors, he has offered testimony for all parties involved in the construction process. Mr. Viau is one of the foremost experts on assessing damage, estimating costs and determining fault. He is an expert on construction industry standards, manufacturers’ recommendations, scope of work, and the laws and regulations that apply to contractors. He is able to provide rigorous analysis by applying these concepts to real world situations, and reaching an expert assessment. In addition to extensive experience in mediation and presenting testimony in trial, Mr. Viau has given accredited lectures on construction topics to attorneys as part of the mandatory continuing legal education requirements of the state bar.

Seminar Information

SpringHill Suites Orlando Airport
5828 Hazeltine National Drive
Orlando, FL 32822
(407) 816-5533

Courtyard Miami West/FL Turnpike
11580 NW 105th Street
Miami, FL 33178
(305) 500-9600

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

Tuition
\$289 for individual registration
\$269 for three or more registrants from the same company at the same time.
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, 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.

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 HSW continuing education hours to architects and engineers in most states, including Florida.

HalfMoon Education is an approved continuing education provider for Florida professional engineers (Provider No. 0004647). This course qualifies for 6.5 Area of Practice continuing education hours.

HalfMoon Education is an approved continuing education provider for Florida architects (Provider No. 0001388; License No. PVD394), and this course is approved for 6.5 HSW continuing education hours.

The American Institute of Architects has approved this event for 6.5 LU|HSW (Provider No. J885).

Full approval is required to have continuing education hours reported in Florida and 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. 24GP00000700), North Carolina, and North Dakota. States have final authority on the acceptance of continuing education activities.

Attendance will be monitored and reported, as required. 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

Industrial Stormwater

- **Understanding the Federal Industrial Stormwater Program**
Thurs., June 27, 2019, 11:00 AM - 12:30 PM CDT
- **Examining Stormwater Pollutants and the Development of Total Maximum Daily Loads (TMDLs)**
Thurs., June 27, 2019, 1:00 - 2:00 PM CDT
- **Creating Stormwater Pollution Prevention Plans (SWPPPs)**
Fri., June 28, 2019, 11:00 AM - 12:00 PM CDT
- **Implementing Best Management Practices (BMPs), Sampling and Reporting**
Fri., June 28, 2019, 12:30 - 2:00 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

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How to Register Online: www.halfmoonseminars.org Phone: 715-835-5900 Fax: 715-835-6066 Code: Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278 Complete the entire form. Attach duplicates if necessary.	Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ 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.
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Tuition

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

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() **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**.

(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*

Credit Card Number: _____

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Signature: _____

Email: _____