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 examine real world examples of construction cost estimates.

Construction Cost Estimating

Portland, OR - Friday, January 18, 2019

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 basics

Indirect construction costs

If you can’t explain it simply...

Burden

What’s burden include?

Why do we care?

Burden calculations

Fun with numbers

Match Game

Analyzing multiple estimates

“Normalizing”

A sensible list

Case study

Xactimate

Insurance industry standards

Pros

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: your room using Uniformat

Case study: Otto’s outhouse

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

Using the estimate components

Construction cost flow chart

Quantity take off (QTO)

Case study: Otto’s outhouse

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

10 steps: level 4, level 5

Refine the estimate: many passes

Peer review

Case study: Thompson gardens

Detailed estimating

Case study: Cuban’s manor

Conclusion

Estimating is a skill and profession

Learning objectives

Back-up material

Homework

PRESENTED BY PETE FOWLER, MICHAEL VILLAELBA AND RON SVARC

Understanding & Evaluating Construction Cost Estimates

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Understand how to analyze and summarize construction cost estimates

Architects

6.5 HSW CE Hours (CEH)

6.5 AIA HSW Learning Units

Professional Engineers

6.5 PDHs

Contractors

6.5 Commercial CE Hours

Discuss the power and dangers of Xactimate

Review case studies and examine real world examples of construction cost estimates

Homework

Back-up material

Agenda

Presented by Pete Fowler, Michael Villalba and Ron Svarc

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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 the American Institute of Architects, the American Society of Professional Estimators (ASPE), the American Conference of Building Officials (ICBO), and the American Institute of Architects (AIA). Mr. Fowler has been invited to speak by the most important groups in the building industry (AAMA, APLA, ASHE, ASME, BIC, CII, IIBS, BCI, etc.). He also has experience with successful expert witness testimony, including in Federal Court.

Michael Villalba, Construction Consultant, Pete Fowler Construction Services, Inc.
Mr. Villalba is an expert construction consultant and cost estimator with experience in virtually every role in the contracting and building industry including laborer, carpenter, superintendent, project manager, estimator, quality control inspector, operations manager, and owner of a general building contracting firm. His experience is wide and deep with project types including single-family residences, multi-family projects, mixed-use developments, and commercial, institutional, industrial, low-rise, mid-rise and high-rise construction. Mr. Villalba serves clients including public and private works, churches, theme parks, reservoirs, schools, hospitals, medical office buildings, multifamily dwellings, hotels, resorts, fire-damage and athletic fields. As a designated expert with specialized expertise in construction, cost estimating, project management and scheduling, he provides unique qualifications for the analysis and interpretation of in-situ conditions and standard of care criteria. Additionally, Mr. Villalba prepares investigative protocols for existing conditions analysis, including design documents and subjective application of local building ordinances, as well as national building code criteria. As a construction management professional, he has a working knowledge of building component performance based on building type, systems interface criteria, and failure diagnosis. Mr. Villalba is proficient in all types of construction scheduling, including the critical path method and fast track scheduling. Mr. Villalba has experience in forensic analysis, preparation of repair methodologies and recommendations, and also the cost of repair associated with remediation of construction defects. He prepares detailed technical analysis of findings, interpretation of existing conditions, and develops appropriate repair scope and estimates.

Ron Svarc, Professional Cost Estimator, Accurate Consultant Services, LLC
Mr. Svarc has over 45 years of construction estimating and management experience in all types of residential, public, government, and commercial construction technology. As a chief and senior estimator, Mr. Svarc has estimated projects from $30,000 to $365,000,000 in the areas of residential, industrial, and commercial buildings; private and public works; churches; theme parks; reservoirs; schools; hospitals; medical office buildings; multifamily dwellings; hotels; resorts; fire-damage and athletic fields. As a designated expert with specialized expertise in construction, cost estimating, project management and scheduling, he provides unique qualifications for the analysis and interpretation of in-situ conditions and standard of care criteria. Additionally, Mr. Svarc prepares investigative protocols for existing conditions analysis, intent of design documents and subjective application of local building ordinances, as well as national building code criteria. As a construction management professional, he has a working knowledge of building component performance based on building type, systems interface criteria, and failure diagnosis. Mr. Svarc is proficient in all types of construction scheduling, including the critical path method and fast track scheduling. Mr. Svarc has experience in forensic analysis, preparation of repair methodologies and recommendations, and also the cost of repair associated with remediation of construction defects. He prepares detailed technical analysis of findings, interpretation of existing conditions, and develops appropriate repair scope and estimates.

Doubletree Hotel Portland 1000 N.E. Multnomah Street Portland, OR 97232 (503) 281-6111

Seminar Information

Registration
8:00 - 8:30 am
Morning Session
8:10 am - 12:00 pm
Lunch (on your own)
12:10 - 1:00 pm
Afternoon Session
1:00 - 5:30 pm

Continuing Education Credit Information
This seminar is open to the public and offers 6.5 HSW continuing education hours to architects and 6.5 PDHs to professional engineers in all states. This seminar also offers 6.5 continuing education hours to Oregon commercial contractors. Educators and courses are not subject to preapproval in Oregon. This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (SPONSOR NO. J868). Only full attendance can be reported to the AIA/CEES. HalfMoon Education is an approved continuing education sponsor for engineers in Florida (License No. GCE0010050). Maryland (Approval No. 24FG00000700), New York (NYSSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is an approved Florida architect continuing education provider and is deemed an approved continuing education sponsor for New York architects. 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
Deep Foundations
• Deep Foundation Site Evaluation
  Weds., Dec. 12, 2018, 11:00 AM - 1:00 PM CST
• Overview of Deep Foundation
  Weds., Dec. 12, 2018, 12:30 - 2:00 PM CST
• Deep Foundation Pile Design
  Thurs., Dec. 13, 2018, 11:00 AM - 12:30 PM CST
• Deep Foundation Installation and Testing
  Thurs., Dec. 13, 2018, 1:00 - 2:00 PM CST
Stormwater Management Systems
• Stormwater Infrastructure Practices
  Weds., Dec. 19, 2018, 11:00 AM - 1:00 PM CST
• Infiltration Management Techniques
  Thurs., Dec. 20, 2018, 11:00 AM - 1:00 PM CST

How to Register
Online: www.halfmoonseminars.org
Phone: 715-835-5900
Fax: 715-835-6066
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278

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
Construction Cost Estimating
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Registrant Information
Name: Company/Firm: Address: City: State: Zip:
Phone: Email: Occupation: Email:
Fax: Phone: Email:

Tuition
$259 for three or more registrants from the same company at the same time.

Credit Card: Mastercard, Visa, American Express, or Discover Credit Card Number: Exp. Month: Exp. Year: CVV2 Code:
Cardholder Name: Billing Address: City: State: Zip:
Signature: Email:

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