

Agenda

Presented by

Ha Yeung (Henry) Yu P.E., LEED Green Associate, CTS

Introduction to Cost Estimating

Classifications of estimates and respective project design stages
Direct and indirect costs

Basis of Estimates

Project documents and significance for estimating
Blueprint reading skills (scales and projection of views)

Cost Components – A Closer Look at the Estimates

Concept of labor time and labor cost estimation
Breakdown of labor hourly wage rates (open shop vs. prevailing)
Material cost estimation
Equipment cost estimates (purchase, rentals and depreciation costs)
Overhead and profit
Inflation
Bonding and insurance

Organization of Estimates and Examples

CSI master-format
Cost summaries – an overview

Cost Estimate Examples – Quantity Take-offs and Pricing

General requirements
Site-work
Concrete
Masonry
Metals
Wood and plastics
Thermal and moisture protection
Doors and windows
Mechanical
Electrical

Other Related Topics

Value engineering
Project scheduling and relationship with cost estimating
Technology utilization for estimating
The bidding process
Management of scope changes (addenda and change orders)

Construction Cost Estimating

North Haven, CT - Thursday, September 6, 2018

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Learning Objectives

You'll be able to:

Learn to use project documents and blueprints as a basis for estimating.

Define cost components including labor, material, equipment, bonding and insurance.

Identify standard formats, templates, and tools for organizing cost estimates.

Calculate quantity take-offs and pricing of materials including concrete, masonry, wood, metals, plastics and more.

Consider the relationship between cost estimating, value engineering and project scheduling.



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Create estimates for different project design stages

Use project documents and blueprints as a basis for estimating

Analyze cost components including labor, material, equipment, and bonding and insurance

Receive practical tips on formatting and organizing of estimates and cost summaries

Learn how to calculate quantity take-offs and pricing

Continuing Education Credits

Professional Engineers

6.5 Continuing Ed. Hours

Contractors

Non-Credit Continuing Ed.

Architects

6.5 HSW Continuing Ed. Hours

6.5 AIA HSW Learning Units



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Faculty

Ha Yeung (Henry) Yu, P.E., LEED Green Associate, CTS
Enterprise Asset Manager in the Office of Chief Operating Officer of the Port Authority of New York & New Jersey

Mr. Yu is a professional engineer licensed in New York State as well as in the Provinces of Alberta and British Columbia, Canada. His other credentials are LEED Green Associate and Certified Technology Specialist.

Mr. Yu possesses extensive experience in major capital construction projects for aviation, bridges and roadways, railroads, utilities, and brownfield remediation, as well as commercial and residential developments. His expertise includes asset management, cost estimating, value engineering, scheduling, feasibility studies, risk analysis, and asset management.

He has conducted cost estimating training programs by invitation of the New York City Economic Development Corporation, and has been teaching the cost estimating and project management lectures for more ten years for the New York City Local 3 Electricians, Plumbers, Carpenters and workers of other trades at the SUNY Empire State College and the Mechanics Institute of the General Society of Mechanics and Tradesmen.

Seminar Information

Best Western Plus North Haven
201 Washington Avenue
North Haven, CT 06473
(203) 239-6700

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.

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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 seminar is open to the public and offers 6.5 continuing education hours to professional engineers and 6.5 HSW continuing education hours to architects in all states, except Florida architects. Continuing education is not mandatory in Connecticut.

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 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.

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

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

The Distributed Battery Webinar Series

- **The Distributed Battery Webinar, Part I**
Wed., Aug. 1, 2018, 11:00 AM - 2:15 PM CDT
- **The Distributed Battery Webinar, Part II**
Thurs., Aug. 2, 2018, 11:00 AM - 2:15 PM CDT

Handling Ethical Issues in Professional Engineering Practice
Fri., Aug. 3, 2018, 11:00 AM - 12:00 PM CDT

Technical Writing

- **Technical Writing Basics**
Thurs., Aug. 9, 2018, 12:00 PM - 2:00 PM CDT
- **Planning Documents**
Thurs., Aug. 9, 2018, 2:30 - 4:30 PM CDT
- **Writing Documents**
Fri., Aug. 10, 2018, 12:00 PM - 2:00 PM CDT
- **Revising and Editing Documents**
Fri., Aug. 10, 2018, 2:30 - 4:30 PM CDT

Foundation Damage and Repair

- **Structure Loads, Soil Mechanics, Bearing Capacity and Geo-Environmental Hazards**
Wed., Aug. 15, 2018, 11:00 AM - 12:30 PM CDT
- **Foundation-Wall Design and Construction**
Wed., Aug. 15, 2018, 1:00 - 2:30 PM CDT
- **Assessment of Foundation-Slab Damage & Repair Alternatives**
Thurs., Aug. 16, 2018, 11:00 AM - 12:30 PM CDT
- **Assessment of Foundation-Retaining Wall Damage & Repair Alternatives**
Thurs., Aug. 16, 2018, 1:00 - 2:30 PM CDT

Retaining Structures

- **Earth Pressures and Surcharges**
Thurs., Aug. 23, 2018, 11:00 AM - 12:30 PM CDT
- **Cantilever & Apparent Earth Pressures**
Thurs., Aug. 23, 2018, 1:00 - 2:30 PM CDT
- **Apparent Earth Pressures**
Fri., Aug. 24, 2018, 11:00 AM - 12:30 PM CDT

For more information visit:
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Registration

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Tuition

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