

Agenda

Presented by
Ha Yeung (Henry) Yu, P.E., P. Eng., PMP, 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 Estimates

Concept of labor time and labor cost estimation
Breakdown of labor hourly wage rates (open shop vs. prevailing)
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
Live, Interactive Webinar - Wed., November 11, 2020

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Learning Objectives

You'll be able to:

Use project documents and plans to extract information necessary for producing accurate estimates for project owners that consider all direct and indirect costs.

Provide quantity take-offs and pricing for specific components, such as site work, concrete, metals, wood, doors, windows, thermal and moisture protection, and mechanical systems.

Calculate and **estimate** labor costs for construction, including the breakdown of hourly wage rates.

Estimate the costs of bonding and insurance which will adequately protect the project owner from shoddy work, non-completion of the project, injuries, and damage.

Discuss the impact of the bidding process and value engineering principles.



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Examine different types of estimates for different design stages

Use project documents as a basis for estimating

Estimate labor costs, insurance, overhead and profit

Produce quantity take-offs for site work, concrete, metals, wood and building components

Consider the relationship of bidding and scheduling to estimating

Continuing Education Credits

Professional Engineers

6.5 PDHs

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Ha Yeung (Henry) Yu, P.E., P. Eng., PMP, LEED Green Associate, CTS, is currently a senior cost engineer at the Port Authority of New York & New Jersey. He is a licensed professional engineer in New York State and Provinces of Alberta and British Columbia, Canada; a Project Management Professional (PMP); a LEED Green Associate and a AVIXA Certified Technology Specialist. He has extensive experience in planning and management for diversified domain construction projects ranging from medium to large-scale industries, which gives him an in-depth understanding of engineering design and construction management. He also provides on-call service as a FEMA Substantial Damage Estimator.

Mr. Yu’s area of expertise includes heavy civil construction, cost estimating, value engineering, project scheduling, feasibility studies, risk assessment, asset management and lifecycle cost analysis. He has conducted cost estimating training programs by invitation of the New York City Economic Development Corporation, and he 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.

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Morning Session 7:30 - 11:00 am CST	Afternoon Session 12:00 - 3:30 pm CST

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Additional Learning

International Building Code 2018
- Mon., October 26, 2020 | 9:00 am - 5:30 pm CDT

Passive House: Planning and Design
- Tues., October 27, 2020 | 8:30 am - 4:30 pm CDT

Aerial Mapping: Technologies and Procedure
- Tues., October 27, 2020 | 8:30 am - 12:00 pm CDT
- Wed., October 28, 2020 | 8:30 am - 12:15 pm CDT

Introduction to the International Green Construction Code (IgCC)
- Wed., October 28, 2020 | 11:00 am - 2:15 pm CDT
- Thurs., October 29, 2020 | 11:00 am - 2:15 pm CDT

Soils in Construction: An Interactive Workshop
- Thurs, October 29, 2020 | 8:30 am - 5:00 pm CDT

Special Inspections under the 2018 International Building Code Chapter 17
- Thurs., October 29, 2020 | 9:30 am - 4:20 pm CDT

Are Heat Pumps Ready to Replace Fossil Fuels in Buildings?
- Fri., October 30, 2020 | 8:30 am - 4:30 pm CDT

Stormwater Basins and Underground Systems
- Thurs., Nov. 5, 2020 | 12:00 - 4:00 pm CST
- Fri., Nov. 6, 2020 | 12:00 - 3:30 pm CST

High-Performance Building Envelopes: Designing for Energy Efficiency and Durability
- Thurs., Nov. 12, 2020 | 11:00 am - 2:45 pm CST
- Fri., Nov. 13, 2020 | 11:00 am - 2:45 pm CST

Onsite Wastewater Treatment Systems
- Mon., Nov. 16, 2020 | 8:30 am - 4:30 pm CST

Wastewater Collection and Treatment System Design
- Mon., Nov. 16, 2020 | 8:30 am - 4:30 pm CST

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