Agenda

Presented by Rifka Malik, CPESC, CPE

Basic Estimating Principles
- The role of an estimator
- What is on the drawings
- What is not on the drawings, but equally important
- Extracting a proper scope of work

Earthwork Analysis
- The components of a complete earth analysis
- Expansion and compression of soils
- The significance of topsoil
- Volumes affecting earthwork

Factors That Impact the Estimate of Utilities
- How the depth of utilities impacts the estimate, and the chain of events it creates
- Two ways that pipe volume matters
- The importance of fittings and how to account for them

Calculation of Earth Spoils
- The impact of earth spoils on the cost estimate

Developing Unit Costs
- Material
- Equipment
- Labor costs
- Productivity

Estimating Erosion Control
- The responsibilities of erosion control and how they impact the estimate
- Estimating proper implementation
- The intangibles in erosion control

Proper Conversions
- Industry units of measure
- Converting for uniformity and accuracy

Class Exercise
- Work in teams to produce sample estimates of components discussed throughout the day

Learning Objectives

You'll be able to:

Apply basic estimating principles to estimating labor, materials and equipment for site work, improving the accuracy and reliability of site work estimates for project owners.

Consider the factors that impact the estimate of underground utility expenses, including depth of utilities and pipe volume.

Accurately calculate the amount of earth spoils, and make responsible and cost-effective plans for hauling and/or reusing spoils.

Determine compliance responsibility for erosion control management on sites and include the cost of erosion control in estimates so the site is not prone to erosion and associated environmental effects.

Work in teams to produce sample estimates.

Estimating the Cost Of Sitework

Raleigh, NC - Monday, February 24, 2020

Enhance your understanding of basic estimating principles and the role of the estimator

Explore the components of earthwork

Understand the factors that impact the estimate of utilities

Calculate earth spoils

Develop unit costs for materials, equipment and labor

Estimate erosion control

Participate in hands-on exercises to produce sample estimates

Continuing Education Credits

Professional Engineers
- 6.5 PDHs

Architects
- 6.5 HSW Contact Hours
- 6.5 AIA LU|HSW

Contractors
- Non-Credit Continuing Ed.

Presented by HalfMoon Education Inc.

PO Box 278
Altoona, WI 54720-0278

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

Find us on Facebook

HalfMoon Education Inc.
WWW.HALFMONESMINAAS.ORG

AIA Continuing Education Provider
Additional Learning

Webinar Series

Commercial Solar Peaker Batteries
• Part I
  Wed., Feb. 5, 2020, 11:00 AM - 1:30 PM CST
• Part II
  Thurs., Feb. 6, 2020, 11:00 AM - 1:30 PM CST

Pumping and Piping Systems
• Introduction to Pumps: Operation, Principles and Calculations
  Thurs., Feb. 6, 2020, 11:00 AM - 1:30 PM CST
• Pumping and Piping Design Standards and Codes
  Thurs., Feb. 6, 2020, 1:30 - 2:30 PM CST
• Piping System Components, Materials and Calculations
  Fri., Feb. 7, 2020, 11:00 AM - 1:30 PM CST
• Handling Pump and Piping System Problems
  Fri., Feb. 7, 2020, 1:30 - 2:30 PM CST

Pavement Design
• Principles of Pavement Design
  Wed., Feb. 12, 2020, 11:00 AM - 12:00 PM CST
• Flexible Pavement Design
  Wed., Feb. 12, 2020, 12:30 - 2:30 PM CST
• Rigid Pavement Design
  Thurs., Feb. 13, 2020, 11:00 AM - 1:00 PM CST
• Maintenance, Rehabilitation and Sustainability of Pavements
  Thurs., Feb. 13, 2020, 1:30 - 3:30 PM CST

Ethical Issues for Engineers
• Resolving Disputes and Handling Ethical Issues in Government Projects
  Fri., Jan. 31, 2020, 12:00 - 1:00 PM CST
• Complying with Rules of Professional Conduct
  Fri., Feb. 7, 2020, 12:00 - 1:00 PM CST

For more information and other online learning opportunities visit: www.halfmoonevent.com/webinar/

Continuing Education Credit Information
This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW contact hours to architects in all states. HalfMoon Education is an approved continuing education provider for North Carolina engineers.

This seminar is approved by the American Institute of Architects Continuing Education System for 6.5 LUs (Sponsor No. J885). Visit www.halfmoonevent.com for complete AIA/CES course information under this seminar listing. Activities approved by the AIA qualify for North Carolina architects. Only full attendance is reportable to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE1700059), Maryland, New Jersey (Approval No. 246/00300706), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects.

This event offers a non-credit continuing education opportunity to construction contractors.

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.

Registration

Estimating The Cost Of Sitework
Raleigh, NC - Monday, February 24, 2020

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

Complete the entire form. Attach duplicates if necessary.

Registration Information

Name: __________________________
Company/Firm: __________________________
Address: __________________________
City: __________________________ State: ___________ Zip: ___________
Occupation: __________________________
Email: __________________________

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

Regrettably, we cannot answer the phone or fax. Mail-in or fax the attached form to 715-835-6066. Checks can be mailed to HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278.

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.

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: __________________________

© 2019 HEI #20 NCESTCSW 2 24 RALE JB