

Agenda

Presented by Ha Yeung (Henry) Yu

Using Economic Principles to Make Better Engineering Decisions

- Economic principles for engineers
- Basics of economic analysis
- Costs and revenues
- Break even analysis

Engineering Projects and the Time Value of Money

- The time value of money
- Understanding interest formulas
- Effective interest rate
- Comparing the value of alternatives

Calculating Present, Future and Annual Worth

- Present worth: concept, applications and calculation
- Future worth: concept, applications and calculations
- Annual worth: concept, applications and calculations
- A few words about depreciation

Applying Economics to Engineering: Equipment Purchase Cost Estimating

- Types of estimates
- Cost quotes and other relevant data
- Methodology

Applying Economics to Engineering: Estimating Production Costs

- Assembling cost data
- Estimating methods

Applying Economics to Engineering: Economic Evaluation of Projects

- Common evaluation methods:
 - Payback method, net present value method, return on investment annual cost, and others
- Analyzing risk and other factors

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.

Practical Engineering Economics
Secaucus, NJ - Thursday, February 27, 2020

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

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



Learning Objectives

You'll be able to:

Apply economic principles to make better engineering decisions.

Utilize the time value of money on engineering projects.

Calculate present, future and annual worth of purchases, investments and costs.

Analyze types of estimates in engineering.

Estimate costs of equipment purchases and production costs.

Learn how to evaluate the economic impacts of projects and consider the economics of risk.



Practical Engineering Economics

Secaucus, NJ - Thursday, February 27, 2020



Learn economic principles to make better engineering decisions

Understand the time value of money on engineering projects

Learn how to calculate present, future and annual worth

Understand how to apply economic principles to equipment purchases and production costs

Evaluate the economic impacts of projects

Continuing Education Credits

Professional Engineers

7.0 CPC Credits/PDHs



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG

Faculty

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

Mr. Yu is currently a senior cost engineer at the Port Authority of New York and New Jersey. He is a licensed professional engineer in New York State and the Provinces of Alberta and British Columbia, Canada. Mr Yu is a project management professional (PMP), a LEED green associate and an AVIXA certified technology Specialist. He possesses extensive experience in planning and management for diversified domain construction projects ranging from medium to large-scale industries, and he has 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 areas 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 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

Embassy Suites Hotel Secaucus

455 Plaza Drive
Secaucus, NJ 07094
(201) 864-7300

Registration
8:00 - 8:30 am
Morning Session
8:30 am - 12:15 pm
Lunch (on your own)
12:15 - 1:15 pm
Afternoon Session
1:15 - 5:00 pm

Tuition

\$289 for individual registration
\$269 for three or more registrations.

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 7.0 CPCs to professional engineers in all states.

HalfMoon Education is an approved continuing education sponsor for New Jersey engineers (Approval No. 24GP00000700).

HalfMoon Education is deemed a New York-approved continuing education provider for engineers via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2)).

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana (License No. CE21700059), Maryland, North Carolina, and North Dakota.

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.

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.

Additional Learning

Webinar Series

Demolition and Deconstruction

- **Purposes and Benefits of Demolition and Deconstruction**
Wed., Jan. 15, 2020, 11:00 AM - 1:00 PM CST
- **Markets/Uses for Deconstructed Materials**
Wed., Jan. 15, 2020, 1:30 - 3:00 PM CST
- **Material-Specific Deconstruction Methods**
Thurs., Jan. 16, 2020, 11:00 AM - 12:30 PM CST
- **Planning and Conducting a Deconstruction**
Thurs., Jan. 16, 2020, 1:00 - 3:00 PM CST

Ethical Issues for Engineers

- **Handling Ethical Issues in Professional Engineering Practice**
Fri., Jan. 17, 2020, 12:00 - 2:00 PM CST
- **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. 14, 2020, 12:00 - 1:00 PM CST

Aerial Mapping Technologies and Procedures

- **Overview of Aerial Mapping Technologies and Platforms**
Thurs., Jan. 23, 2020, 11:00 AM - 12:30 PM CST
- **Mapping Using UAS and Photogrammetry**
Thurs., Jan. 23, 2020, 1:00 - 3:00 PM CST
- **Post Processing Software Applications and Photogrammetry Demonstration**
Fri., Jan. 24, 2020, 11:00 AM - 1:00 PM CST
- **FAA Commercial UAS Regulations and FAA Part 107**
Fri., Jan. 24, 2020, 1:30 - 3:00 PM CST

Introduction to the World of BIM and the Revit Basics

- **BIM and Revit Overview**
Wed., Jan. 29, 2020, 11:00 AM - 12:30 PM CST
- **Revit Model Building and Elements**
Wed., Jan. 29, 2020, 1:00 - 3:00 PM CST
- **Creating Sheets in Revit**
Thurs., Jan. 30, 2020, 11:00 AM - 12:30 PM CST
- **Revit Drafting and 3D Model Management**
Thurs., Jan. 30, 2020, 1:00 - 3:00 PM CST

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Registration

Practical Engineering Economics

Secaucus, NJ - Thursday, February 27, 2020

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.

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.
- () **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**. USB/Manual Package **\$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: _____
Expiration Date: _____ CVV2 Code: _____
Cardholder Name: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Signature: _____
Email: _____