

# Agenda

### Producing Different Types of Cost Estimates

Purposes of and methodologies for cost estimates

- Design estimate
- Bid estimate
- Control estimate

Marcene Taylor,  
G. Beckstead

### Construction Estimating Resources and Processes

Estimating team  
Estimating process  
Data resources  
CSI Master format

Marcene Taylor,  
G. Beckstead

### Estimating Labor, Equipment, Overhead and Profit

Estimating labor costs  
Estimating for construction equipment costs  
Estimating overhead costs  
Estimating profit

Marcene Taylor,  
G. Becksstead,  
Phil Capell,  
Brent Wright

### Estimating Construction Materials and Services

Earthwork and excavation  
Pavements  
Concrete structures  
Wood structures  
Steel structures  
Masonry  
Floors  
Roofing  
Interiors  
Finishes

Marcene Taylor,  
G. Becksstead

### Estimating Mechanical, Electrical and Plumbing

Plumbing  
Electrical systems  
Mechanical systems

Phil Capell,  
Brent Wright

### Using Construction Estimating Software

Review of industry-standard software

Marcene Taylor,  
G. Beckstead

### Construction Cost Estimating

Salt Lake City, UT - Tuesday, January 16, 2018



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## Learning Objectives

#### You'll be able to:

**Analyze** the methodologies for creating design estimates, bid estimates and control estimates.

**Examine** estimating resources, including the estimating team, data resources, and CSI MasterFormat.

**Estimate** labor costs, construction equipment costs, overhead costs, and profit.

**Calculate** costs of earthwork, pavements, concrete, steel, roofing, interiors, plumbing, and electrical systems.

**Review** industry standard estimating software.



## Construction Cost Estimating

Salt Lake City, UT - Tuesday, January 16, 2018



**Discuss** the production of design estimates, bid estimates and control estimates

**Review** construction estimating resources and processes

**Estimate** labor, construction equipment, overhead, and profit

**Prepare** take-offs for earthwork, pavement, concrete, wood, steel, floors and roofs

**Explore** construction estimating software

### Continuing Education Credits

#### Professional Engineers

6.5 PDHs

#### Architects

6.5 HSW CE Hours

6.5 AIA HSW Learning Units

#### Contractors

Non-Credit Continuing Education



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# Faculty

**Marcene Taylor, CPE** *President at Marcene Taylor Inc.*  
Ms. Taylor is a specialist in conceptual cost estimating, a published essayist, national president of the American Society of Professional Estimators, and president of Marcene Taylor Inc. She began her estimating career as an apprentice at Davis Langdon in 1996, then joined HMC Architects from 2001 to 2007. She was then the principal in charge of cost planning for mack5 until 2010 when she started Marcene Taylor Inc. She has written articles for *Estimating Today* and she contributed to the books *Hot Jobs and Non-Traditional Careers for Women and Men*. Ms. Taylor has a certificate in Construction Project Management from California State University, Dominguez Hills, and is a certified professional estimator. She conducts cost planning and analysis for a variety of different facility types specializing in healthcare, educational, civic and academic facilities. Ms. Taylor specializes in early conceptual estimating to ensure that a project's scope is achievable for the budget available, emphasizing not only the construction cost portion of the project, but also the entire project budget.

**Glen Beckstead** *Owner/Chief Estimator at Conceptual Cost Estimating in Salt Lake City*  
Mr. Beckstead has been a cost estimator in the Salt Lake area for over forty years. In that time, his experience spans almost every type and size of construction project, covering almost 47 billion dollars of construction. He has provided cost consulting for many of the architects and owners in the Utah area, as well as throughout the United States and the world. His expertise include LEED costing for all types of construction, cost opinions for pre-construction through final bid for owners and architectural firms, program cost opinions, detailed cost opinions using CSI

## Seminar Information

**Marriott University Park**  
480 Wakara Way  
Salt Lake City, UT 84108  
(801) 581-1000

Registration  
8:00 - 8:30 am

Morning Session  
8:30 am - 12:00 pm

Lunch (On your own)  
12:00 - 1:00 pm

Afternoon Session  
1:00 - 4:30 pm

**Tuition**  
**\$279** for individual registration  
**\$259** for three or more registrations.  
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**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](http://www.halfmoonseminars.org).  
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**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 CD/manual package. You may also send another person to take your place.

breakdown, cost control, value engineering and many more. Mr. Beckstead has provided cost opinions on over 3,500 projects, including the Salt Lake International Airport Renewal and Replacement and many other major projects. He is also an experienced speaker on cost estimation.

**Phil Capell, CPE** *Vice President/Director of Pre-Construction Services at GSL Electric Inc.*  
Mr. Capell specializes in electrical cost estimating. He is a journeyman electrician, president of the Salt Lake Chapter of the American Society of Professional Estimators, and a vice president at GSL Electric, currently operating as manager of Pre-Construction Services. Mr. Capell began his career as an apprentice electrician working for H&R Electric from 1998-2002. In August of 2002, he began working for GSL Electric as an estimator. From 2006 to 2012, Mr. Capell worked as a project manager for GSL Electric, managing a wide range of projects including small commercial, large commercial, large industrial projects at Kennecott and Barrick mines, water and waste water projects, and projects at food processing facilities. Mr. Capell has an associates degree in Construction Management as well as a bachelor's degree in Technology Management both from Utah Valley University. He completed his electrical apprenticeship at Utah Valley University through the IEC program and currently holds journeyman licenses in the states of Utah and Wyoming. He is also a certified professional estimator. Mr. Capell oversees all hard bid estimating for GSL Electric. The types of bids include a wide variety of facilities and types of construction such as small commercial, religious facilities including many LDS temples, food processing facilities, healthcare facilities, educational facilities, industrial projects including power plants, various mining applications, and oil and gas as well as water and waste water

### Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states, excluding Florida architects. Educators and courses are not subject to preapproval in Utah.

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.

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, Louisiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

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

Attendance will be monitored and reported, as required. 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.

projects. He manages and trains the estimators working for him, maintains the software estimating database and works with the project management team after the project is captured to maximize productivity and cost savings opportunities.

**Brent Wright, CPE** *Lead Estimator at GSL Electric Inc.*  
Mr. Wright is a lead estimator for GSL Electric. He is currently serving as vice president of Chapter 51 (Salt Lake City) of the American Society of Professional Estimators. He began his construction career as a young carpenter, working during the summers for MK Construction as a framer and finish carpenter. During this time, he also learned how to pour concrete, and he was soon overseeing the operations for a concrete construction company that specialized in footings, foundations and flatwork. Mr. Wright also learned to operate slip form and paving machinery and was involved in the I-15 reconstruction project until 2002. Before starting his career as an electrician in 2005, Mr. Wright was a superintendent for a custom home builder. He completed all four years of electrical apprenticeship training with the IEC. He wrote an article that was published in *Estimating Today*, "How to Estimate the Cost of an Emergency Back Up System in a Hospital". Mr. Wright began his estimating career as a junior estimator at GSL in 2006. In 2008, he became a lead estimator, where he prepares ROMs, budgets, estimates and proposals for commercial and industrial electrical projects. He became a certified professional estimator (CPE) in 2015. Currently, Mr. Wright is acting as a lead estimator bidding a wide variety of electrical projects throughout the Western United States. As well as being responsible for completing the bids and ensuring the completeness and accuracy of his bids, he also trains and mentors younger estimators.

## Additional Learning

### Webinar Series

#### Seismic Design and Construction

- Seismology and Building Codes**  
Wed., Dec. 27, 2017, 11:00 AM - 3:30 PM CST
- Seismic Design of Building Structures**  
Thurs., Dec. 28, 2017, 11:00 AM - 3:30 PM CST

#### The Distributed Battery Webinar Series

- The Distributed Battery Webinar, Part I**  
Thurs., Dec. 28, 2017, 11:00 AM - 2:15 PM CST
- The Distributed Battery Webinar, Part II**  
Fri., Dec. 29, 2017, 11:00 AM - 2:15 PM CST

For more information visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

#### 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.

# Registration

## Construction Cost Estimating

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| How to Register                                                                          | <b>Registrant Information</b><br>Name: _____<br>Company/Firm: _____<br>Address: _____<br>City: _____ State: _____ Zip _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><br><b>Additional Registrants:</b><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><br>Name: _____<br>Occupation: _____<br>Email: _____<br>Phone: _____<br><br>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.<br><br>( )  I need special accommodations. Please contact me. |
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### Tuition

- ( ) **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.
- ( ) **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

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