

Agenda

Presented by Charlie Trujillo, Doug Watson and Chase Kryger

Overview of Special Inspections

General program guidelines
Special inspector qualifications
Testing and inspection agency accreditation
Forms, schedules and agreements
Pre-construction meeting
Report distribution

Soil and Foundation Inspections

Existing soil conditions
Site preparation
Shallow foundations
Deep foundations

Concrete and Masonry Construction Inspection

Concrete reinforcement, placement, testing and inspection
Curing concrete, hot- and cold-weather concrete
Prestressed and precast concrete
Masonry inspection frequency and material test methods
Mortar, grout, unit placement and reinforcement

Steel Inspections

Shop fabrication
Welds
Bolted connections
Pre-engineered metal buildings

Wood, Cold-Formed Steel, Wind and Seismic Design

AWC and AISI publication references in Code
Wood and CFS material standards, fasteners and connections
Lateral framing inspection practices
Seismic resistance/isolation systems

Exterior Insulation/Finishes and Fire Resistance/Smoke Control

Exterior insulation and finish systems
Fire resistant materials and sprayed fire-resistive material
Smoke control

Material Standards and Load Tests

Design strength of materials and alternative test procedures
In-situ load tests
Pre-construction load tests

Ethics, Non-Conformances and Final Reports

Inspector authority, conflicts and “soft skills”
Discrepancy documentation, tracking and resolution
Final report, required documentation and distribution

Special Inspections under the International Building Code Chapter 17
Salt Lake City, UT - Wednesday, March 21, 2018

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:

Identify the qualifications needed to be a special inspector.

Explore requirements for steel fabrication, bolting and welding.

Discuss inspection and testing of concrete and masonry.

Review inspection practices for wood structural elements and connections.

Examine requirements for fire-resistant materials.

Study material standards and review load testing procedures.



Special Inspections under the International Building Code Chapter 17

Salt Lake City, UT - Wednesday, March 21, 2018



Understand general program guidelines

Identify Special Inspector qualifications

Examine wood, cold-formed steel, wind and seismic design

Learn about concrete and masonry construction inspections

Explore exterior insulation, finishes and fire resistance, and smoke control

Discuss ethics, non-conformances and final reports

Continuing Education Credits

Professional Engineers
7.0 Professional Education Hours

Architects
7.0 HSW CE Hours
7.0 AIA HSW Learning Units

International Code Council
.7 CEUs (Building)



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG





Charlie Trujillo
Marketing Manager at CMT Engineering Laboratories
Mr. Trujillo joined CMT in 2013 as the marketing manager. Mr. Trujillo oversees the marketing for special inspection and materials testing services as well as the geotechnical engineering for the entire organization. He brings over 32 years of experience in the testing industry all of which have been in the intermountain front. He has provided the administration and quality control management for both field and laboratory operations on many projects including medium and high-rise structures as well as civil roadway and rail projects. His involvement with UTA's Light Rail went from the corridor and all the way to the University Hospital. He also worked and managed many high-rise projects that make up the Salt Lake skyline today. Mr. Trujillo has overseen many contracts at the Salt Lake International Airport for both geotechnical and material testing, and he has maintained a multi-year steel testing and inspection contract and two years of an on-call materials testing and special inspection contract. Mr. Trujillo is involved with well over \$1 billion in construction each year. He provided quality control oversight on all of the IHC Hospitals and most clinics built in Utah since 2004. In addition, he was part of the team that provided the testing

and inspection services for the Utah Data Center project in Lehi, Utah. This massive NSA Data Center was well over \$1.6 billion in construction. Prior to joining CMT, Mr. Trujillo was general manager/principal for Consolidated Engineering Laboratories.

Doug Watson
President of CMT Engineering Laboratories
Mr. Watson joined CMT in 2000. As president of CMT Engineering Laboratories, he is responsible for the overall management of the company which services include PEPG Consulting – Civil Engineering, Surveying, Project Management and CMT Engineering Laboratories - Geotechnical, Materials Testing, Special Inspections, Inorganic Analysis, Asphalt Binder and Emulsions Testing, Concrete Petrography, and Precision Calibration. Mr. Watson brings over 35 years’ experience and knowledge in the materials testing industry. Over the years he has been involved in material evaluation, forensic investigations, product research and design of both HMA and PCCP pavement.His specialized training includes: advanced design and troubleshooting, pavement rehabilitation, and advanced troubleshooting of Portland cement concrete. Mr. Watson’s experience in hot mix asphalt design and QA/QC testing is unmatched throughout Utah.

CMT Engineering Laboratories maintains three highly qualified design laboratories and provides exceptional quality control and research and development work in the state primarily due to Mr. Watson’s knowledge and expertise. Mr. Watson’s has extensive knowledge in UDOT, FAA, Army Corp of Engineers, and BLM specifications, and his company has performed services for major structural and civil projects requiring one of more of these specifications. CMT Engineering Laboratories, under the leadership of Mr. Watson, has received multiple awards from the American Concrete Association, American Concrete Paving Association and was awarded UDOT’s Consultant Laboratory of the year 2009-2014, 2016.

Chase Kryger
AWC Special Inspector at CMT Engineering Laboratories
Mr. Kryer joined CMT in 2013 as an AWC special inspector. Mr. Kryer has over 11 years’ experience in the steel industry providing quality control inspection at SME Steel Contractors for seven years and as a pipe fitter and welder at SME for three years. His current role at CMT is project manager for the Northern Utah area. Mr. Kryer holds certification in steel, welding, ultrasonic testing, magnetic particle testing, ICC structural masonry and ICC structural steel and bolting.

Seminar Information

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

Tuition
\$279 for individual registration
\$259 for three or more registrations.

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

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 professional education hours/PDHs to professional engineers and 7.0 HSW continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Utah.

This seminar is approved by the American Institute of Architects for 7.0 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.

The International Code Council has approved this activity for .7 CEUs in the specialty area of Building.

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.

Additional Learning

January Webinar Series

Designing Solar Roofs and Community Solar

- **Design Your Solar Roof**
Wed., Jan. 24, 2018, 11:00 AM - 2:15 PM CST
- **Community Solar**
Wed., Jan. 31, 2018, 11:00 AM - 2:15 PM CST

Pumping and Piping System

- **Introduction to Pumps: Operation, Principles and Calculations**
Thurs., Jan. 25, 2018, 12:00 - 2:00 PM CST
- **Design Standards and Codes**
Thurs., Jan. 25, 2018, 2:30 - 3:30 PM CST
- **Piping System Components, Materials and Calculations**
Fri., Jan. 26, 2018, 12:00 - 2:00 PM CST
- **Handling Pump and Piping System Problems**
Fri., Jan. 26, 2018, 2:30 - 3:30 PM CST

For more information visit:
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

Special Inspections under the International Building Code Chapter 17
Salt Lake City, UT - Wednesday, March 21, 2018

How to Register		Registrant Information
Online: www.halfmoonseminars.org		Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900		Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066		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.
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		

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)

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: _____

