

NOTE: Space is limited on all training, workshops, & live demonstrations, so register early!

HANDS-ON TRAINING: Mix Design & Testing Labs

Course Codes: TUMD1-3, WEMD1-3

Dates/Times: Tues – Wed, Feb 4 – 5, 8:00am – 4:30pm

Trainers: John Schemmel, Tom Greene

Location: LVCC Central Hall, Concourse 5

This beginner hands-on training experience consists of two laboratory stations: 1) Materials & Mix Design and 2) Field Quality Control. In the first station, participants will identify and examine individual materials commonly used in concrete including aggregates, cement, fly ash, slag, and silica fume. Hear how the various materials influence both fresh and hardened concrete properties. In addition, learn about chemical admixtures and watch tabletop demonstrations showing how these admixtures work. Attendees will mix a small batch of concrete to understand how materials and their proportions influence the properties of concrete.

The second part of this hands-on session will focus on proper methodologies for testing fresh concrete in the field with demonstration of tools used to measure fresh concrete properties. Laboratory activities will include slump cone, density measure, air content by pressure meter, air content by volumetric meter, thermometer, and specimen molds. Participants will also learn about testing tolerances, significance of fresh concrete tests and how testing contributes to the quality control of the project.

SPECIAL NOTE: This hands-on training is a great complement to *Concrete Basics I* (Seminar MO01) and *Concrete Mix Design I* (Seminar WE12).

Select one preferred time slot: Tues, Feb 4: **TUMD1:** 8am–11:30am **SOLD OUT!**
TUMD2: 10am–1:30pm **SOLD OUT!**
TUMD3: 1pm–4:30pm **SOLD OUT!**
 Wed, Feb 5: **WEMD2:** 10am–1:30pm
WEMD3: 1pm–4:30pm **SOLD OUT!**

Mix Design & Testing Labs Fee: \$400; \$480 after 12/11/19 and onsite
 3.5 Continuing Education hours approved for AIA/CES LU, PDH and TCA.

HANDS-ON TRAINING: Stamped Concrete

ALL SESSIONS SOLD OUT! Course Codes: TUSC1, WESC1, THSC1

Dates/Times: Tues, Feb 4, 1:00pm – 5:00pm; Wed - Thurs, Feb 5 - 6, 8:00am – 12:00pm

Trainers: Paul Schneider, Kenny Cox

Location: LVCC Bronze Lot, Certification/Training Area

Participants will apply the basics of stamped concrete in this hands-on training session. Attendees will place and stamp an area consisting of straight and curved formwork. Applying and working with color hardeners and release agents plus how to properly use stamping tools to create various textures including borders and bands will be experienced. Participants will also practice different jointing and edging techniques as well as washing, cleaning and sealing. Don't miss this opportunity to learn how to create the look of slate or stone by doing it yourself!

This training is a great complement to TU130, *Stamped Concrete: Advanced Techniques and Cutting-Edge Products* presented by Todd Scharich and TH133, *Troubleshooting Common Issues with Decorative Concrete Applications and Finishes* presented by Chris Sullivan.

IMPORTANT: Minimum age 18 years.

Clothing requirements: long pants, long shirt sleeves and work boots. Safety equipment will be provided.

Select one preferred time slot: Tues, Feb 4: **TUSC1** 1:00pm–5pm **SOLD OUT!**
 Wed, Feb 5: **WESC1** 8:00am–12pm **SOLD OUT!**
 Thurs, Feb 6: **THSC1** 8:00am–12pm **SOLD OUT!**

Stamped Concrete Fee: \$475; \$550 after 12/11/19 and onsite
 4.0 Continuing Education hours approved for AIA/CES LU, PDH and TCA.

HANDS-ON TRAINING: How to Place & Finish Floors

ALL SESSIONS SOLD OUT! Course Codes: WEPTD1, THPTD1–2

Dates/Times: Wed, Feb 5, 1:00pm–5:00pm; Thurs, Feb 6, 8:00am–12:00pm & 1:00pm–5:00pm

Trainers: Jeff Groom, Denny Bartz

Location: LVCC Bronze Lot, Certifications & Training Area

This 4-hour hands-on-training session is limited to 20 attendees per time slot. Want to get dirty and learn how to place, screed, bull float and power trowel a concrete floor slab? This is not a sit and watch session—you'll be the flatwork finisher! Attendees will be divided into groups of 10 each and each group will place and finish a 12 ft x 30 ft slab under the direction of industry recognized flatwork finishers. Attendees will receive individual instructions and tips on how to use various hand and power tools including hand-held vibratory-screeds, straight edges, bull floats, bump cutters and walk-behind power trowels. Learn about the window of finishability and how to read fresh concrete.

Hands-On Training participants are encouraged to attend seminar TU120, *Introduction to Placing and Finishing Concrete Slabs: Best Practices* for a more complete educational experience.

Select one preferred time slot: Wed, Feb 5: **WEPTD1** 1:00pm–5:00pm **SOLD OUT!**
Thurs, Feb 6: **THPTD1** 8:00am–12:00pm **SOLD OUT!**
Thurs, Feb 6: **THPTD2** 1:00pm–5:00pm **SOLD OUT!**

IMPORTANT: *Minimum age 18 years.*

Clothing requirements: *long pants, long shirt sleeves and work boots. Safety equipment will be provided.*

Place & Finish Fee: \$475; \$550 after 12/11/19 and onsite

4.0 Continuing Education hours approved for AIA/CES LU, PDH and TCA.

HANDS-ON TRAINING: Surveying with Total Stations (Basics and Advanced levels offered)

Basics for Beginners

ALL SESSIONS SOLD OUT! Course Codes: TUSTS1, TUSTS2, WESTS2

Date/Time: Tues, Feb 4, 8:00am–12:00pm & 1:00pm–5:00pm

Trainers: Travis Houston, Paul Urbano

Location: LVCC North Hall, Room N101

This introductory hands-on training session will explain the basic workings of digital total stations used in surveying with special focus on accuracies, errors and minor adjustments. Instrumental, personal, natural random and systematic errors will be discussed along with procedures for avoiding common pitfalls such as measuring angles and distances. Attendees will be subdivided into small groups to demonstrate/practice the following: instrument setup and proper handling and care of equipment. Attendees will set-up a total station over a specific point using the 5-step method as well as learn to measure distances and horizontal/vertical (zenith) angles properly.

Select one preferred time slot: **TUSTS1:** 8:00am–12:00pm **SOLD OUT!**
TUSTS2: 1:00pm–5:00pm **SOLD OUT!**
WESTS2: 1:00pm–5:00pm **SOLD OUT!**

Basics of Surveying Fee: \$375; \$455 after 12/11/19 and onsite

4.0 Continuing Education hours approved for AIA/CES LU, PDH and TCA.

Advanced Surveying with Total Stations

SOLD OUT! Course Code: WESTS1

Date/Times: Wed, Feb 5, 8:00am–12:00pm

Trainers: Travis Houston, Paul Urbano

Location: LVCC North Hall, Room N101

This hands-on training session is designed for experienced operators who already have a good working knowledge and significant practice using total stations in the field. Participants will go beyond what is commonly learned on the job and delve into specifications, accuracies and calibrations which are rarely understood by the typical construction surveyor. Specific detail will be presented on methods which may be utilized to improve accuracy of point location beyond the standard procedures typically used on construction sites. Hands-on use of total stations will demonstrate easily performed field checks and adjustments of instrument calibration in setting up accurately on a point and

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measurement of distances and angles. A special discussion regarding expected accuracies with various degrees of factory stated specifications typically found will also be included.

IMPORTANT: Recommended for participants with 1-2 years' experience using total stations.

Advanced Surveying Fee: \$375; \$455 after 12/11/19 and onsite

4.0 Continuing Education hours approved for AIA/CES LU, PDH and TCA.

Contact Christen Tye, WOC Education Manager, at christen.tye@informa.com for more information and questions regarding hands-on training sessions.