

# WOC Education Program Certifications / Exams

## ACI Concrete Flatwork Finisher/Technician Certification

*Presented by the American Concrete Institute.*



**Code:** WE56  
**Title:** ACI Concrete Flatwork Finisher/Technician Training  
**Date/Time:** Wednesday, January 25 | 8:00 am - 11:00 am  
**Location:** LVCC North Hall, Room N109

For participants looking to become certified as an ACI Concrete Flatwork Finisher, this preparatory course will cover topics such as quality control tests, finishing tools, placing, finishing, jointing and curing. ACI publication CP-10(05) is included and will also be available in Spanish (upon request).

1. Recognize basic technology, materials and mix proportioning for concrete
2. Analyze basic procedures demonstrating finishing concrete flatwork including placing, consolidation, and finishing plus edging, jointing, curing and protecting
3. Identify various techniques for the proper use of tools as recommended by ACI and expert finishers
4. Clarify the certification process and preparation needed for the written exam

*3.0 continuing education hours approved for AIA/CES (HSW) and PDH.*

**WE56 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**Code/Title:** THCFF ACI Concrete Flatwork Finisher/Technician Written Examination  
**Date/Time:** Thursday, January 26 | 1:00 pm - 3:00 pm  
**Location:** LVCC North Hall, Room N109

A closed-book, two-hour written exam consisting of 50 multiple-choice questions based on ACI Publication CP-10(05) is scheduled for Thursday afternoon, 1:00 pm – 3:00 pm. Separate registration and \$140 exam fee required which includes ACI Publication CP-10(05). A Spanish version of the exam will be available upon request. All who score 70% or above will be certified as an ACI Flatwork Technician. Upon submission and verification of work experience, certification will be upgraded to ACI Flatwork Finisher. Work experience forms will be available at the examination or directly from ACI. Questions about the certification and/or examination can be directed to the ACI Certification Department at 248.848.3790.

**THCFF Written Exam Fee: \$140.00**

*Separate registration fee required for preparatory training seminar WE56 (\$125 advanced fee; \$155 after 12/08/11) and written exam THCFF (\$140 fee). Registration includes ACI Publication CP-10(05).*

*Contact ACI at 248.848.3790 with questions about the certification and/or examination.*

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## ACI Concrete Field Testing Technician – Grade I Certification

*Presented by the Las Vegas Chapter of the American Concrete Institute.*



**Code:** TU54 **NEW!**  
**Title:** ACI Field Concrete Testing Technician - Grade I Review  
**Date/Time:** Tuesday, January 24 | 1:00 pm - 4:00 pm  
**Location:** LVCC North Hall, Room N238

This review seminar will provide an overview of the seven ASTM field tests for ready-mixed concrete included in the ACI Concrete Field Testing Technician – Grade I certification program. Participants will review testing procedures and why they are critical in providing accurate and reliable testing results. Attendees will also have the opportunity to participate in a hands-on practice session Wednesday morning, Room N254, when purchasing the written/performance examinations (WTHFTE).

The official workbook for the ACI Concrete Field Testing Technician Grade I written exam, PC-1(11), is included with the examinations registration fee – See WTHFTE. **NOTE:** “Seminar Only” attendees should purchase a copy of the workbook at the WOC bookstore to serve as the *handout* for this seminar.

Learning Objectives:

1. Outline requirements of the ACI Concrete Field Testing Technician - Grade I program
2. Explain how to properly conduct field tests on freshly mixed concrete

3. Describe how proper procedures result in accurate and reliable results
4. Examine seven ASTM test methods and best practices:
  - a. C1064/C1064M Temperature of Freshly Mixed Hydraulic-Cement Concrete
  - b. C172 Sampling Freshly Mixed Concrete
  - c. C143/C143M Slump of Hydraulic-Cement Concrete
  - d. C138/C138M Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
  - e. C231 Air Content of Freshly Mixed Concrete by the Pressure Method
  - f. C173/C173M Air Content of Freshly Mixed Concrete by the Volumetric Method
  - g. C31/C31M Making and Curing Concrete Test Specimens in the Field

3.0 continuing education hours submitted for AIA/CES (HSW) and PDH.

**TU54 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**Code/Title:** WTHFTE(1-4) ACI Concrete Field Testing Technician – Grade I Written/Performance Examinations  
**Date/Time:** WRITTEN EXAM: Wednesday, January 25 | 3:30 pm – 5:30 pm (Room N238)  
**Date/Time:** PERFORMANCE EXAM: Thursday, January 26 | 9:00 am – 5:00 pm (two-hour time slots) Gold Lot

Registration for the combined written/performance examinations includes the ACI publication CP1 (11) which will be mailed to you prior to the show. The one-hour, closed-book, written exam consists of 55 multiple choice and true-false questions. The performance exam requires examinee to properly perform and record the results of seven basic field tests on freshly mixed concrete. In order to obtain certification participants must pass the written exam with a score of at least 60% on each ASTM Standard, a 70% percent overall score, and successfully perform each of the seven ASTM Standard Methods. Attendees will also have the opportunity to participate in a hands-on practice session Wednesday morning prior to taking the written examination—practice session included with examination registration.

**Schedule:** Hands-on practice session, Room N254, on Wednesday, January 25 between 8:00 am and 12:00 pm is an open workshop which gives attendees an opportunity to observe and participate in demonstrations for each of the testing procedures. The Written Examination will be administered Wednesday, January 25 from 3:30 pm – 5:30 pm. The Performance Examination takes approximately two hours to complete and will be held Thursday, January 26 from 9:00 am through 5:00 pm.

**NOTE: Space is limited to 30 participants per time slot, so register early!** When registering, attendees will select their preferred two-hour slot – see schedule below:

- WTHFTE1: 9:00 am – 11:00 am
- WTHFTE2: 11:00 am – 1:00 pm
- WTHFTE3: 1:00 pm – 3:00 pm
- WTHFTE4: 3:00 pm – 5:00 pm

**WTHFTE Written/Performance Exam Fee: \$430**

Separate registration fee required for review seminar TU54 (\$125 advanced fee; \$155 after 12/08/11) and for the examinations (\$430).

Questions about the certification or examinations can be answered by Las Vegas ACI at [acilasvegas@earthlink.net](mailto:acilasvegas@earthlink.net) or 702.656.8827.

## ACI Specialty Commercial/Industrial Concrete Flatwork Finisher/Technician Certification

Presented by the American Concrete Institute.

**Code:** MO51  
**Title:** ACI Specialty Commercial/Industrial Concrete Flatwork Training  
**Date/Time:** Monday, January 23 | 1:00 pm - 4:00 pm  
**Location:** LVCC North Hall, Room N232



American Concrete Institute  
 Advancing concrete knowledge

Stand out from the competition and take your crew to the next level! This seminar will focus on commercial slab construction and techniques for high tolerance floors. To certify as an ACI Specialty Commercial/Industrial Concrete Flatwork *Technician*, participants must score at least 70% on the written exam (TUCIF). To certify as an ACI Specialty Commercial/Industrial Concrete Flatwork *Finisher/Technician* participants must also successfully complete a hands-on performance exam (TUFPE), submit relevant work experience, and hold credentials as an ACI Concrete Flatwork Finisher.

1. Clarify the information and skills needed to become a certified Commercial/Industrial Flatwork Finisher
2. Obtain general overview of slab construction technology

3. Evaluate general construction techniques used for high tolerance floors, surface hardeners and silica fume concrete
4. Review and discuss sample certification exam questions

3.0 continuing education hours approved for AIA/CES (HSW) and PDH.

**MO51 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**Code/Title:** TUFPE ACI Specialty Commercial/Industrial Concrete Flatwork Performance Examination  
**Date/Time:** Tuesday, January 24 | 7:00 am - 1:00 pm  
**Location:** Gold Lot, front of North Hall

A limited number of hands-on performance examinations will be available on-site at WOC Tuesday, January 24, 7:00 am – 1:00 pm. Attendees will place, strike-off, and finish a high-tolerance slab. Upon successful completion of the written exam, performance exam and verification of submitted work experience, certification as an ACI Specialty Commercial/Industrial Concrete Flatwork Finisher will be issued. Participants will also be eligible to receive the High Tolerance Specialist certification in addition to the Commercial/Industrial Finisher credential. Since the performance exam will be conducted using fresh concrete, registered participants must be present for the entire performance examination. Though not required for certification, the slab will be measured for flatness/levelness and conformance to superflat tolerance criteria ( $F_F$ ,  $F_L$ , and  $F_{min}$ ) achieved following completion of the exam. Separate registration and \$205 performance exam fee required.

*ACI will provide all powered and hand tools needed for the performance exam plus safety equipment—it is recommended that participants wear steel toe boots.*

**NOTE: Space is limited to 50 participants, so register early!**

**TUFPE Performance Exam Fee: \$205.00**

**Code/Title:** TUCIF ACI Specialty Commercial/Industrial Concrete Flatwork Written Examination  
**Date/Time:** Tuesday, January 24 | 3:30 pm - 5:30 pm  
**Location:** LVCC North Hall, Room N232

A closed-book, two-hour written exam consisting of 75 multiple-choice questions based on ACI Publication CP11(08) (included with training seminar registration fee) is scheduled for Tuesday, January 24, 3:30 pm – 5:30 pm. To certify as an ACI Specialty Commercial/Industrial Concrete Flatwork Technician, participant must score at least 70% on the written exam. Separate registration and \$140 written exam fee required .

**TUCIF Written Exam Fee: \$140.00**

*Separate registration fees required for preparatory training seminar MO51 (\$125 advanced fee; \$155 after 12/08/11), performance exam TUFPE (\$205 fee) and written exam TUCIF (\$140 fee).*

*Questions about this certification program can be answered by the ACI Certification Department at 248.848.3790.*

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## ACPA Concrete Pump Operator Certification

*Presented by the American Concrete Pumping Association.*

**Code:** TU53  
**Title:** ACPA Concrete Pump Operator Safety Training  
**Date/Time:** Tuesday, January 24 | 8:00 am - 11:00 am  
**Location:** LVCC North Hall, Room N227



ACPA Concrete Pump Operator Certification is the only industry-recognized certification program which provides an independent written assessment of an operator's knowledge regarding concrete pump safety. Specific equipment experience time and four hours of ACPA sanctioned safety training is required for ACPA Certification and Re-Certification. Attending WOC Seminar TU53 on Concrete Pump Safety fulfills the safety training requirement and is a comprehensive, in-depth course covering all the basics included in the Certification Exam. Inexperienced operators can fulfill their safety training requirement and still have the opportunity to take the exam and then apply for certification once they reach the required experience time. Certification, Re-Certification and apprentice examinations will be available later after the training seminar. For more information and to register for the written examination, contact ACPA at 614.431.5618, email [janet@concretepumpers.com](mailto:janet@concretepumpers.com), or visit Booth C5761 at World of Concrete 2012. A valid driver license is required for all certifications.

1. Evaluate how to increase an operator's level of safety awareness and professionalism
2. Summarize the concrete pumping basics from before the job preparation to cleaning out and completing the job
3. Discuss detailed instructions on specific safety hazards such as operating near powerlines, outrigger set-up, clean-out procedures and air entrapment
4. Identify the top safety issues and how to safely and effectively deal with co-workers coming in contact with a concrete pump on the job

3.0 continuing education hours approved for AIA/CEC (HSW) and PDH.

**TU53 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**ACPA Concrete Pump Operator Safety Written Exam (must contact ACPA directly to register)**

**Date/Time: Tuesday, January 24 | 1:00 pm - 3:00 pm**

**Location: LVCC North Hall, Room N221**

Take the ACPA Concrete Pump Operator Certification Exam the same day as the training seminar, Tuesday, January 24, 1:00 pm – 3:00 pm. Certification, re-certification and apprentice examinations will be available. Specific work experience on specified equipment is required for certification. To register for the written examination, contact ACPA at 614.431.5618 or email [janet@concretepumpers.com](mailto:janet@concretepumpers.com).

Separate registration fee required for preparatory training seminar TU53 (\$125 advanced fee; \$155 after 12/08/11) and written exam.

For more information and to register for the written examination, contact ACPA at 614.431.5618, email [janet@concretepumpers.com](mailto:janet@concretepumpers.com) or visit Booth C5761 at World of Concrete 2012.

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## CFA Foundation Contractor Certification

Presented by the Concrete Foundations Association.

**Code: MO50**

**Title: CFA Certified Foundation Contractor Certification Training**

**Date/Time: Monday, January 23 | 8:00 am - 11:00 am**

**Location: LVCC North Hall, Room N235**



Residential concrete construction has a broad range of experience and quality represented in thousands of companies across North America. Distinguishing your company from these ranks is one of the most important decisions you can make. The CFA Foundation Contractor Certification Program was established to provide measurable quality assurance to the residential construction industry. Information presented will range from concrete basics to design, construction, finishing and waterproofing, excavation, backfilling safety and code compliance. Attendees will identify the advanced principles that define companies from coast to coast for their quality and leadership while they prepare to be recognized as a *Certified Foundation Technician*.

1. Assess the basic concepts specific to residential foundations necessary for CFA Technician Certification
2. Summarize the fundamentals of materials, design, construction, finishing and waterproofing
3. Evaluate various techniques for excavating and backfilling
4. Identify safety issues and code compliance

3.0 continuing education hours approved for AIA/CES (HSW) and PDH.

**MO50 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**Code/Title: TUCFA Foundation Technician Written Examination**

**Date/Time: Tuesday, January 24 | 3:30 pm – 5:30 pm**

**Location: LVCC North Hall, Room N235**

The second part of the CFA Certification is a 2-hour written exam scheduled for Tuesday afternoon, 3:30 pm – 5:30 pm—an open-book but difficult test that challenges the ability of the examinee to demonstrate their working knowledge of the residential foundation industry. After successful completion of this exam, participants will earn the **CFA Foundation Technician Certification**.

Attendees who register for the exam will automatically receive the exam reference packet which will be used as a supplement for the seminar, however, individuals not sitting for the exam are strongly encouraged to purchase the exam reference packet for use as a handout, for future use during an exam or in business (\$95 special WOC rate).

Separate registration and fee required for preparatory training seminar MO50 (\$125 advanced fee; \$155 after 12/08/11) and written exam TUCFA (\$245).

**PLEASE NOTE:** Thursday, December 29 is last day to register for the written examination – interested registrants can contact CFA directly for late registration approval (email [jbaty@cfawalls.org](mailto:jbaty@cfawalls.org)).

**TUCFA Written Exam Fee: \$245.00**

For questions or additional information, please contact CFA at 319.895.6940 or visit booth C4547b at World of Concrete 2012.

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## ICRI Slab Moisture Testing Technician Certification

Presented by the International Concrete Repair Institute.



**Code:** WE55  
**Title:** ICRI Slab Moisture Testing Technician Educational Review  
**Date/Time:** Wednesday, January 25 | 8:00 am - 11:00 am  
**Location:** LVCC North Hall, Room N227

The International Concrete Repair Institute (ICRI) is pleased to provide a Concrete Slab Moisture Testing Technician Certification Program. The purpose of this program is to help standardize moisture testing in the U.S. with the intent of producing more consistent and accurate test results, which will allow flooring installers, manufacturers, design professional and owners to make better decisions on when a concrete floor is ready for a floor covering.

This certification program is divided into two Tiers. Tier 1 is comprised of a three-hour educational/review session (WE55) and a one-hour written exam (WECRT). Tier 1 attendees who attend the review seminar and pass the written exam will be issued an ICRI letter of achievement in the area of moisture testing.

Tier 2, **full certification** attendees will be required to attend the same educational/review session (WE55) and take the written exam (WECRT) in addition to performing each of the four ASTM field tests under the watchful eye of a qualified judge who will provide no level of coaching. By passing both the written and performance exams, a Slab Moisture Testing Technician - Grade I, 5 year Certification will be issued by ICRI to the individual.

The written exam and field performance tests will be based on the following four (4) ASTM Standards, including all Annexes and Appendices:

1. Prepare Concrete Floors to Receive Resilient Flooring; Section 5.3 pH Testing (ASTM F 710)
2. Measure Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride (ASTM F 1869)
3. Determine Relative Humidity in Concrete Floor Slabs Using *in situ* Probes (ASTM F2170)
4. Determine Relative Humidity on the Surface of Concrete Floor Slabs Using Relative Humidity Probe Measurement and Insulated Hood (ASTM F2420)

3.0 continuing education hours approved for AIA/CES (HSW) and PDH.

**WE55 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**Code/Title:** WECRT ICRI Slab Moisture Testing Technician Written Examination  
**Date/Time:** Wednesday, January 25 | 12:30 pm - 1:30 pm  
**Location:** LVCC North Hall, Room N227

A closed-book, 60-minute written exam, based on the ASTM tests listed in training seminar WE55, along with general knowledge of moisture issues in concrete slabs is scheduled for Wednesday, January 25 from 12:30 pm – 1:30 pm. Separate written exam registration and \$230 fee required.

Tier 1 attendees who attend course WE55 and pass the written exam will be issued an ICRI letter of achievement in the area of moisture testing. Examinees must attend seminar WE55 before sitting for the written and performance exams.

**WECRT Written Exam Fee: \$230.00**

**Code/Title:** THRPE ICRI Slab Moisture Testing Technician Performance Examination  
**Date/Time:** Thursday, January 26 | 12:00 pm - 5:00 pm (one-hour time slots)  
**Location:** Gold Lot, front of North Hall

A limited number of field performance examinations (60 minutes allowed) consisting of the ASTM tests listed in training seminar WE55 will be available onsite at WOC on Thursday afternoon, January 26 beginning at 12:00 pm. Examinees will be performing these exams on hardened concrete (there will be no exposure to fresh concrete) under the watchful eye of a qualified judge who will provide no level of coaching. ICRI will provide the necessary power tools, including a small, hand-held grinder and a concrete drill. The tests themselves are relatively low risk from a safety perspective, but ICRI will supply all necessary safety equipment (safety glasses, gloves if needed, etc.) No heavy lifting is involved with these tests.

**NOTE: Space is limited to 7 participants per time slot, so register early!** When registering, attendees will select their preferred one-hour slot – see schedule below:

THRPE1: 12:00 pm – 1:00 pm

THRPE2: 1:00 pm – 2:00 pm

THRPE3: 2:00 pm – 3:00 pm

THRPE4: 3:00 pm – 4:00 pm

THRPE5: 4:00 pm – 5:00 pm

**THRPE Performance Exam Fee: \$415.00**

**PLEASE NOTE:** Prequalification for acceptance into full certification Tier 2 will be previous testing experience. This full certification program will consist of a three-hour educational/review seminar, a written exam and a field performance exam. By attending Seminar WE55 and passing both the written and performance exams, a **Slab Moisture Testing Technician - Grade I** will be certified by ICRI as an individual who has demonstrated the knowledge and ability to properly perform and record the results of four basic field moisture tests on hardened concrete.

Separate registration fees are required for each segment of this program.

1. WE55 Preparatory Educational Review: \$125 advance; \$155 after 12/08/11 and onsite
2. WECRT Written Exam: \$230 advance and onsite (attendance at WE55 required)
3. THRPE Performance Exam: \$415 advance and onsite (attendance at WE55 and WECRT required)

*Questions about the certification and/or examination can be directed to Kelly Page, ICRI Executive Director, at 847.827.0830 or via email [kelly.page@icri.org](mailto:kelly.page@icri.org).*

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## Pervious Concrete Certification Program Overview

**Code:** MO52  
**Title:** Contractor's Introduction to Placing Pervious Concrete Pavements  
**Date/Time:** Monday, January 23 | 1:00 pm – 4:00 pm  
**Location:** LVCC North Hall, Room N235

This session will present four of the six chapters from the text for the NRMCA pervious concrete contractor certification program. Attendees will learn about the basics of pervious concrete, how it is different from plain concrete, and the tools and techniques for placing, consolidation, finishing, edging, jointing and curing of pervious concrete. After completing this session and reading the accompanying text, the student will be ready to take the NRMCA certification exam.

1. Determine why pervious concrete pavements are specified
2. Evaluate the unique placement procedures necessary for pervious concrete
3. Identify the tools and equipment needed to place a pervious concrete pavement
4. Explore the unique site designs associated with pervious concrete

*3.0 continuing education hours submitted for AIA/CES and PDH.*

**MO52 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**Code/Title:** TUPP, WEPP, THPP, FRPP Pervious Concrete Field Project for Installer Certification  
**Date/Time:** Tuesday, January 24 – Friday, January 27 | 10:30 am – 4:30 pm (2-hour time slots)  
**Location:** Pervious Concrete LIVE, Gold Lot

Registrants taking advantage of this opportunity to demonstrate and enhance their skills as pervious concrete installers will meet one of the requirements for the pervious concrete installer certification. During the two-hour field project participants will learn the latest techniques for installing pervious concrete, and simulate the performance evaluation commonly conducted by certification entities. Project participants will practice and demonstrate procedures for placing, compacting, finishing, edging, jointing and early curing of a pervious concrete slab. Instructors will observe and evaluate the techniques used and record “pass” or “fail” grades on the various individual procedures. Participants who “pass” the field project exercise will be issued credit for their efforts as completing one of three required construction projects for the pervious concrete installer.

This two-hour “hands-on” learning activity is open to all registered WOC attendees, but credit towards certification can only be extended to those who possess a current ACI Flatwork Finisher Technician or Craftsman certification at the time of application. PLEASE NOTE: class size is limited to eight individuals per two-hour time slot. Field project opportunities are offered Tuesday – Thursday, 10:30 am – 4:30 pm and Friday, 10:30 am – 12:30 pm.

**NOTE: Space is limited to 8 participants per time slot, so register early!** When registering, attendees will select their preferred two-hour slot – see schedule below:

TUPPA: Tues, Jan 24, 10:30 am – 12:30 pm (*placing equipment supplied by Multivibe Equipment*)

TUPPB: Tues, Jan 24, 12:30 pm – 2:30 pm (*placing equipment supplied by Bunyan Industries*)

TUPPC: Tues, Jan 24, 2:30 pm – 4:30 pm (*placing equipment supplied by Lura Enterprises*)

WEPPA: Wed, Jan 25, 10:30 am – 12:30 pm (*placing equipment supplied by Multivibe Equipment*)

WEPPB: Wed, Jan 25, 12:30 pm – 2:30 pm (*placing equipment supplied by Bunyan Industries*)

WEPPC: Wed, Jan 25, 2:30 pm – 4:30 pm (*placing equipment supplied by Lura Enterprises*)

THPPA: Thurs, Jan 26, 10:30 am – 12:30 pm (*placing equipment supplied by Multivibe Equipment*)

THPPB: Thurs, Jan 26, 12:30 pm – 2:30 pm (*placing equipment supplied by Bunyan Industries*)

THPPC: Thurs, Jan 26, 2:30 pm – 4:30 pm (*placing equipment supplied by Lura Enterprises*)

FRPPA: Fri, Jan 27, 10:30 am – 12:30 pm (*placing equipment supplied by Lura Enterprises*)

*Presented by Concrete Construction and The Concrete Producer magazines.*

**Pervious Field Project Fee: \$150.00 on or before 12/08/11; \$175.00 after 12/08/11 and onsite**

*Separate registration fee required for introductory seminar MO52 (\$125 advanced fee; \$155 after 12/08/11) and for the field project (\$150 advanced fee; \$175 after 12/08/11).*

*Questions about the certification or field project can be answered by the Tennessee Concrete Association at 615.360.7393.*

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## TCA/ACI Tilt-Up Technician/Supervisor Certification

*Presented by the Tilt-Up Concrete Association and the American Concrete Institute*

**Code:** TH57  
**Title:** TCA/ACI Tilt-Up Technician/Supervisor Training  
**Date/Time:** Thursday, January 26 | 1:00 pm - 4:00 pm  
**Location:** LVCC North Hall, Room N232



American Concrete Institute  
*Advancing concrete knowledge*

The seminar will present an overview of the areas of construction in which a tilt-up supervisor is expected to be knowledgeable: safety, plan reading, scheduling, site preparations, foundations, slabs-on-grade, layout, forming, concrete placement and properties, erection and structural systems. Work experience, length of certification, certification levels and other program criteria will be discussed. The Tilt-Up Technician/Supervisor workbook, ACI Publication CP50(07), is the official study guide for the written exam and is included with the exam registration fee. *Seminar only attendees should pick up a copy at the WOC bookstore to serve as the handout for this seminar.*

1. Describe the ACI Tilt-Up Technician/Supervisor certification process, responsibilities and terminology
2. Summarize issues of safety, plan reading, site preparation, scheduling, foundations, slabs-on-grade, layout, forming, placement, and erection of tilt-up walls
3. Recognize the factors that affect the properties of concrete including aggregates, colored and special cement, and the hardening process of each
4. Identify various types of portland cement, their mix proportioning, and the significance of water to cement ratio
5. Demonstrate knowledge of basic concrete technology by completing study questions

*3.0 continuing education hours approved for AIA/CES (HSW) and PDH.*

**TH57 Seminar Fee: \$125.00 on or before 12/08/11; \$155.00 after 12/08/11 and onsite**

**Code/Title:** THTUS TCA/ACI Tilt-Up Technician/Supervisor Certification Written Examination

**Date/Time:** Thursday, January 26 | 4:00 pm - 6:00 pm

**Location:** LVCC North Hall, Room N232

The closed-book, two-hour written exam consisting of 80 multiple choice questions based on ACI publication CP50(07) is scheduled on Thursday, January 26 from 4:00 pm to 6:00 pm, immediately following the seminar. Participants who score 70% or above will be certified as an **ACI Tilt-Up Technician**. Upon verification of work experience, credential will be upgraded to **ACI Tilt-Up Supervisor**. Work experience forms available at the examination or directly from ACI. Separate registration and \$225 written exam fee required – exam fee includes ACI Publication CP50(07), a \$110 value.

**THTUS Written Exam Fee: \$225.00**

*Separate registration fee required for preparatory training seminar TH57 (\$125 advanced fee; \$155 after 12/08/11) and written exam THTUS (\$225 exam).*

*Questions about the examination can be answered by the ACI Certification Department at 248.848.3790, TCA at 319.895.6911 or visit TCA booth C4547 at World of Concrete 2012.*

The educational/training opportunities listed below are presented by WOC Education Partnering Associations – all inquiries regarding certification requirements and continuing education approvals in addition to general questions should be directed to the individual association contact reflected within each description.

### CPAA Tradesman Certification Level I

*Presented by the Concrete Polishing Association of America.*



**Session Code: CPAAWE**

**Wednesday, January 25 | 8:00 am - 12:00 pm**

**LVCC South Hall, Room S231**

The concrete polishing industry is comprised of many variables that must be understood and overcome to have a successful outcome. The Concrete Polishing Association has defined industry standards, developed ethical guidelines, created non-biased specifications, and worked with many leading contractors to develop practical procedures that produce quality, processed concrete floors. The CPAA Tradesman Certification has been designed to create a consistent foundation of education that defines the entire polishing process.

The CPAA Tradesman Certification covers the fundamentals of the polishing process and addresses concrete mix designs, placement and finishing techniques, diamond tooling design and function, equipment design and function, in addition to basic job site logistics, layout and management. A written examination will be given at the conclusion of the class. Those who pass the exam will receive Tradesman Level I accreditation.

The Tradesman Certification offers student/instructor interaction and real answers to the questions you're looking for in order to establish a successful polishing business. Registration includes a comprehensive handout that will assist in preparing for both the Craftsman and Master Craftsman Certifications.

**NOTE: Space is limited to 50 participants, so register early!**

**CPAAWE Fee: \$390.00**

*Questions about this program should be directed to Brad Burns with CPAA. Ph: 817-253-5538 or Email [brad@polishinginstitute.org](mailto:brad@polishinginstitute.org). For additional information on CPAA visit [www.polishinginstitute.org](http://www.polishinginstitute.org).*

### CPAA Specifying Bonded Abrasive Polished Concrete Floors

*Presented by the Concrete Polishing Association of America.*



**Session Code: CPAATU**

**Tuesday, January 24 | 9:00 am - 11:00 am**

**LVCC South Hall, Room S231**

This seminar will provide attendees with an insight into the intricacies of polishing concrete floors with bonded abrasives. Presenter Walter Scarborough will enumerate the specification requirements that should be in the concrete specification to enhance the chance of success of the polishing operations. Discussions will also detail the requirements that are important for a specification for polishing concrete floors including qualifications, field mock-ups, pre-installation conferences, liquid applied product qualities and equipment. The grinding, honing and polishing process specifics, four classes of aggregate exposure and glossy finish, in addition to testing for slip resistance, surface profile, abrasive resistance and gloss will also be addressed. Attendees should come away with the ability to effectively specify the design intent for a bonded abrasive polished concrete floor.

**CPAATU Fee: \$150.00**

*Questions about this program should be directed to Brad Burns with CPAA. Ph: 817-253-5538 or Email [brad@polishinginstitute.org](mailto:brad@polishinginstitute.org). For additional information on CPAA visit [www.polishinginstitute.org](http://www.polishinginstitute.org).*

## CSDA Hand Sawing & Drilling 101

Presented by the Concrete Sawing and Drilling Association.



### Session Code: CSDATTH

Tuesday - Thursday, January 24 - 26

LVCC North Hall, Room N206

#### Tuesday January 24

8:00 am – 5:00 pm Classroom Instruction

#### Wednesday – Thursday, January 25 - 26

7:00 am - 4:00 pm Hands-On Training

Course Content: Overview of the sawing and drilling industry and fundamentals of concrete; diamond tool technology, how tools cut and why they don't; the value of safe work habits and equipment maintenance; cutting principles and proper techniques for cutting disciplines including wall sawing, hand sawing and core drilling. Basic introduction to types of wall saws, hand saws, chain saws, ring saws and core drills including their applications and components; blade selection, diamond chain selection and core selection; how diamonds work with each types of saw or drill; safe work practices; classroom and hands-on training regarding set-up, operation, troubleshooting and preventative maintenance.

**NOTE: Space is limited to 25 participants, so register early!**

**CSDATTH Fee: \$950.00**

*Questions about this program should be directed to Erin O'Brien with CSDA.*

*Ph: 727-577-5004 or Email [erin@csda.org](mailto:erin@csda.org). For more information about CSDA go to [www.csda.org](http://www.csda.org).*

## CSDA Estimating Course

Presented by the Concrete Sawing and Drilling Association.



### Session Code: CSDATW

Tuesday - Wednesday, January 24 - 25 | 8:00 am – 5:00 pm

LVCC North Hall, Room N207

Course Content: Estimating is a two-day classroom course focused on the practice of estimating sawing and drilling jobs. The course outlines the role of an estimator, reviews different methods of estimating, compares estimates and actual costs and discusses how estimators affect the company's bottom line. Attendees will learn what the costs of a job are, estimating techniques, how to build an estimating model, how to verify the estimate, how to read blueprints and customer service skills.

Requirements: Attendees should have at least three years experience in the concrete cutting industry and want to become estimators, or be current estimators who want to broaden their knowledge in the field of estimating.

**NOTE: Space is limited to 48 participants, so register early!**

**CSDATW Fee: \$695**

**PLEASE NOTE:** All students are advised to bring a calculator and architect/engineering scale for the blueprint section of the course. Registration includes two days of instruction and all classroom materials.

*Questions about this program should be directed to Erin O'Brien with CSDA.*

*Ph: 727-577-5004 or Email [erin@csda.org](mailto:erin@csda.org). For more information about CSDA go to [www.csda.org](http://www.csda.org).*

## MCAA Masonry Foreman Development Course

Presented by the Mason Contractors Association of America.



### Session Code: FDSM

Sunday - Monday, January 22 - 23 | 8:00 am – 4:00 pm

LVCC North Hall, Room N212

Masonry field supervisors need to manage both people and resources in order to have a successful and profitable project. Labor is the only unknown factor on a project, everything else is fixed. Why gamble with your bottom line?

The Masonry Foreman Development Course has been designed to provide your key employees with the skills necessary to become an effective job foreman and profit center for your company.

This 2-day intensive course will teach the key areas of responsibility for foremen such as communication, leadership, problem solving, accident prevention, cost awareness, planning and organizing, production control, and contract documents. Lunch will be served to attendees on both days.

It's no wonder the most profitable companies are companies with the most educated foremen. Enroll your employees today and watch your profits grow.

**Discipline:** Ethics & Business Practices

**Credits:** 20

**NOTE: Space is limited to 45 participants, so register early!**

**FDSM Fee MCAA Member: First Attendee – \$600.00; Additional Attendees – \$550.00**

**FDSM Fee Non-member: First Attendee – \$750.00; Additional Attendees – \$700.00**

*Questions about this program should be directed to the MCAA at 800-536-2225.*

*For more information go to [www.masoncontractors.org](http://www.masoncontractors.org).*

## MCAA Masonry Quality Institute

*Presented by the Mason Contractors Association of America.*

**Session Code: MQISM**

**Sunday - Monday, January 22 - 23 | 8:00 am – 4:00 pm**

**LVCC North Hall, Room N210**



Day-to-day operations leave little time to assess your policies and procedures. You want to ensure your company maintains the highest level of quality construction while earning maximum profits. How do you implement quality standards that are measurable and help increase profitability?

This new-and-improved program will provide you the ability to measure your company's level of quality. The Masonry Quality Institute (MQI) is a two-day course that assists masons in evaluating their services, meeting stringent customer expectations, and improving their profitability.

The course agenda will include an introduction to the quality process and detailed implementations of the basic principles of quality on the first day. On the second day, attendees will interact with the course instructors in discussing the quality process and learn strategies for team building and problem solving. Lunch will be served to attendees on both days.

**Discipline:** Masonry Quality Institute

**Credits:** 16

**NOTE: Space is limited to 45 participants, so register early!**

**MQISM Fee MCAA Member: First Attendee – \$825.00; Additional Attendees – \$775.00**

**MQISM Fee Non-member: First Attendee – \$925.00; Additional Attendees – \$875.00**

*Questions about this program should be directed to the MCAA at 800-536-2225.*

*For more information go to [www.masoncontractors.org](http://www.masoncontractors.org).*

## MCAA Wall Bracing Program

*Presented by the Mason Contractors Association of America.*

**Session Code: WBPWE**

**Wednesday, January 25 | 9:00 am – 12:00 pm**

**LVCC North Hall, Room N210**



The Masonry Wall Bracing Seminar has been developed to provide contractors with the know-how to confidently design and construct bracing for a variety of common masonry structures. This is an opportunity to save your company money by designing your own wall bracing rather than paying a structural engineer.

This course is intended to teach project managers, safety managers, foremen and any other responsible person to understand and implement the OSHA regulation on wall bracing, the Standard Practice for Bracing Masonry Walls, and the Masonry Wallbracing Design Handbook. Completion of this course will allow your people to safely and efficiently design adequate masonry wall bracing. Why pay an engineer for a design that you can do yourself?

Hands-on demonstrations will be utilized. Lunch will be served to attendees.

**Discipline:** Safety  
**Credits:** 3

**NOTE: Space is limited to 50 participants, so register early!**

**WBPWE Fee MCAA Member: First Attendee – \$200.00; Additional Attendees – \$150.00**  
**WBPWE Fee Non-member: First Attendee – \$250.00; Additional Attendees – \$200.00**

*Questions about this program should be directed to the MCAA at 800-536-2225.  
For more information go to [www.masoncontractors.org](http://www.masoncontractors.org).*

## **NFSI/CPAA Floor Slippage Safety Training Course**

*Presented by the National Floor Safety Institute and  
the Concrete Polishing Association of America.*



**Session Code: NFSI**

**Tuesday, January 24 – Thursday, January 26 | 1:30 pm – 2:30 pm**  
**Concrete Polishing LIVE, Gold Lot**

Is Polished Concrete Slippery? Slips and falls are one of your customers' biggest safety-related problems costing building owners millions of dollars in injury claims and litigation each year. The National Floor Safety Institute (NFSI) and the Concrete Polishing Association of America (CPAA) will be co-hosting an educational program outlining the facts behind slip-and-fall injuries and how contractors can help prevent themselves from being drawn into these legal issues.

- Learn what OSHA and the ADA have to say about slip resistance on floors
- Review the new ANSI B101.1 standard that outlines procedures to use to test slip resistance
- Learn the differences in floor testers
- Learn how the polishing process affects the slip coefficient
- Observe and/or participate in on-hand demonstrations on various slip meters

Class size is limited so register early!

When registering, attendees will select their preferred one-hour time slot – see below:

**NFSITU** Tuesday, January 24 | 1:30 pm - 2:30 pm

**NFSIWE** Wednesday, January 25 | 1:30 pm - 2:30 pm

**NFSITH** Thursday, January 26 | 1:30 pm - 2:30 pm

**NOTE: Space is limited to 20 participants per time slot, so register early!**

**NFSI Fee: \$50.00**

*Questions about this program should be directed to Brad Burns with CPAA.*

*Ph: 817-253-5538 or Email [brad@polishinginstitute.org](mailto:brad@polishinginstitute.org).*

*For more information on NFSI go to [www.nfsi.org](http://www.nfsi.org); for more information about CPAA visit [www.polishinginstitute.org](http://www.polishinginstitute.org).*

## **PCI Industry Erection Standards Course**

*Presented by the Precast/Prestressed Concrete Institute.*

**Session Code: PCIIES**

**Tuesday, January 24 | 8:00 am – 5:00 pm**

**Wednesday, January 25 | 8:00 am – 4:00 pm**

**Las Vegas Hotel**



Today's business environment demands a high degree of training and certification. Customer satisfaction is the principal goal in achieving profitability. The Industry Erection Standards (IES) program is a practical presentation of industry standards, issues, and expectations. It provides a unique opportunity to interface with peers to discuss common issues and share solutions and successes. The IES Program will:

- Provide a means for erection personnel to demonstrate proficiency
- Reinforce quality standards for erection personnel
- Teach industry erection standards to erection personnel
- Provide a means of helping personnel to develop skills and credentials
- Enable erectors to challenge employees to grow in their knowledge

The IES training class is packed with activities: round-table discussions, student-instructor interaction, and two certification examinations. Students will receive copies of the PCI Erector's Manual, MNL-127, and the PCI Erection Safety Manual for Precast and Prestressed Concrete, MNL-132, plus class notes and extensive reference material. Course attendees who pass both examinations with a score of 80% or higher will receive an IES Course Completion certificate, a registration number for their record, hard hat stickers proclaiming IES Trained and wallet cards to serve as proof of training.

**PCIIES Fee: \$795.00** (IES only) *(WOC attendees receive PCI member pricing)*

*Questions about this program should be directed to Alex Morales with PCI.  
Ph: 312-360-3219 or Email [AMorales@pci.org](mailto:AMorales@pci.org). For more information on PCI go to [www.pci.org/schools](http://www.pci.org/schools).*

## PCI Certified Field Auditor Training & Industry Erection Standards Course

*Presented by the Precast/Prestressed Concrete Institute.*

**Session Code: PCICFA**

**Monday – Tuesday, January 23 – 18 | 8:00 am – 5:00 pm**

**Wednesday, January 25 | 8:00 am – 4:00 pm**

**Las Vegas Hotel**



The Certified Field Auditor course covers all of the information presented in the Industry Erection Standards Course, *plus* an extra full day of content with a third examination for certification. In addition to all of the objectives of the IES course, the CFA class will:

- Teach and certify qualified persons to audit, evaluate, and report precast concrete field erection activities according to PCI standards

Like the IES training, the CFA class is packed with activities: round-table discussions, student-instructor interaction, and certification examinations. CFA students will receive copies of the PCI Erector's Manual, MNL-127, and the PCI Erection Safety Manual for Precast and Prestressed Concrete, MNL-132, plus class notes and extensive reference material. Attendees who pass all three examinations with a score of 80% or higher will receive an official certification, a wall certificate, wallet cards, hard hat stickers and a unique certification number assigned to them.

**PCICFA Fee: \$995.00** (CFA and IES) *(WOC attendees receive PCI member pricing)*

*Questions about this program should be directed to Alex Morales with PCI.  
Ph: 312-360-3219 or Email [AMorales@pci.org](mailto:AMorales@pci.org). For more information on PCI go to [www.pci.org/schools](http://www.pci.org/schools).*

## PCI Quality Control Technician/Inspector Levels I & II

*Presented by the Precast/Prestressed Concrete Institute.*

**Session Code: PCI (Level I only: \$595.00)**

**Monday, January 23 | 8:00 am – 5:00 pm**

**Las Vegas Hotel**

**LEVEL I EXAM Tuesday, January 24 | 8:00 am – 9:00 am**

**Session Code: PCI2 (Level 2 only: \$595.00)**

**Tuesday, January 24 | 10:00 am – 5:00 pm**

**Las Vegas Hotel**

**LEVEL II EXAM Wednesday, January 25 | 9:00 am – 11:00 am**

**Session Code: PCI3 (Level I & Level II: \$995.00)**

**Monday - Tuesday, January 23 – 24 | 8:00 am – 5:00 pm**

**Las Vegas Hotel**

**LEVEL I EXAM Tuesday, January 24 | 8:00 am – 9:00 am**

**LEVEL II EXAM Wednesday, January 25 | 9:00 am – 11:00 am**

The precast/prestressed concrete industry depends on a high level of quality in the concrete products and structures it produces. The Plant Quality Personnel Certification Program is designed to provide instruction and testing to help train and certify people to assist producers, consultants, and owner agencies to continue this tradition.

The Level I & II Quality Control and Assurance School begins the series of exciting Quality Control Schools and Certification Programs. The programs are developed especially for quality control engineers, technician/managers, plant



managers/superintendents, consulting engineers, and technicians. However, the schools and certifications are open to everyone involved in planning, operations, and quality control in the precast products industry.

The Level I & II program is packed with activities: round-table discussions, practice sessions, student-instructor interaction, and certification examinations. Students will receive a copy of the valuable Quality Control Technician/Inspector Level I & II Training Manual TM-101, plus class notes and extensive reference material.

**PCI Fee: \$595.00 for Level I only; PCI2 Fee: \$595.00 for Level II only; PCI3 Fee: \$995.00 for Level I & Level II**  
(WOC attendees receive PCI member pricing)

Questions about this program should be directed to Alex Morales with PCI.  
Ph: 312-360-3219 or Email [AMorales@pci.org](mailto:AMorales@pci.org). For more information on PCI go to [www.pci.org/schools](http://www.pci.org/schools).

## SAIA Competent Person Training – Frame Scaffold

Presented by the Scaffold & Access Industry Association.



**Session Code: SIAMO**

**Monday, January 23 | 7:30 am – 4:30 pm**  
**LVCC North Hall, Room N208**

This program is designed for scaffold erectors and covers all the safety aspects regarding frame scaffold foundations, scaffold components, regulations, guardrail requirements, and erection and dismantling procedures for frame scaffolds that exceed the standard height to base ratio. The course format includes a combination of presentation, question and answer, a hands-on component and final exam.

Participants who score 70% or higher on the Competent Person written exam and display competency building frame scaffolding will receive a certificate of completion and wallet card from the SAIA Training Program, certifying completion of Competent Person Training in the erection of frame scaffolds. Those not meeting a 70% on the final exam will receive a certificate completion and wallet card for the Hazard Awareness training.

- The Course includes the training manual, *Competent Person Training: Frame Scaffold*, with self-test questions for each chapter.
- The chapter self-tests, are included in the manual. The final exam is largely based on the questions within the self-tests and it is important that students correctly answer all the self-test questions. The correctly completed self-test questions become a very useful study guide to prepare for the final exam.

**How to prepare:** We recommend that you register early in order to allow yourself plenty of time to study. It is absolutely necessary that participants read the textbook and complete all of the self-tests. Please bring the textbook on the day of the class for review.

**Note:** If your competent person designation is older than three years old, it is expired. You can re-certify at this course.

**SIAMO Fee: \$300.00**

**NOTE:** See *SAIWE Competent Person Training – Frame Scaffold presented in Spanish on Wednesday, January 25th*.

## SAIA Competent Person Training – Suspended Scaffold

Presented by the Scaffold & Access Industry Association.



**Session Code: SIATU**

**Tuesday, January 24 | 7:30 am – 4:30 pm**  
**LVCC North Hall, Room N208**

This program is designed for suspended scaffold users and covers all the safety aspects regarding suspended scaffold stages, ropes, regulations, guardrail requirements, fall protection, hoists and installation components. The course format includes a combination of presentation, question and answer, and final exam.

Participants who score 70% or higher on the Competent Person written exam will receive a certificate of completion and wallet card from the SAIA Training Program, certifying completion of Competent Person Training with Suspended Scaffold.

- The Course includes the training manual, *Safety Training for Suspended Scaffolds*, with self-test questions for each chapter.

- The chapter self-tests, are included in the manual. The final exam is largely based on the questions within the self-tests and it is important that students correctly answer all the self-test questions. The correctly completed self-test questions become a very useful study guide to prepare for the final exam.

**How to prepare:** We recommend that you register early in order to allow yourself plenty of time to study. It is absolutely necessary that participants read the textbook and complete all of the self-tests. Please bring the textbook on the day of the class for review.

**Note:** If your competent person designation is older than three years old, it is expired. You can re-certify at this course.

**SIATU Fee: \$300.00**

**NOTE:** See *SIATH Competent Person Training – Suspended Scaffold presented in Spanish on Thursday, January 26th.*

*Questions about these programs should be directed to Granville Loar with SAIA.  
Ph: 816-595-4860 or Email [granville@saiaonline.org](mailto:granville@saiaonline.org). For more information on SAIA go to [www.saiaonline.org](http://www.saiaonline.org).*

## SAIA Persona Competente – andamio del marco (presentada en español)

*Presented by the Scaffold & Access Industry Association.*



**Session Code: SIAWE**

**Miércoles, January 25 | 7:30 am – 4:30 pm  
LVCC North Hall, Room N208**

Este programa está diseñado para montadores de andamios y cubre todos los aspectos de seguridad en relación con el marco bases de andamios, los componentes del andamio, reglamentos, requisitos de la barandilla, y los procedimientos de montaje y desmontaje de andamios de marco que supere la altura estándar de relación de base. El formato del curso incluye una combinación de presentaciones, preguntas y respuestas, un componente práctico y el examen final.

Los participantes que obtengan una puntuación del 70% o más en el examen escrito Persona Competente y competencia pantalla andamios marco de la construcción recibirán un certificado de finalización y la tarjeta en la cartera del Programa de Capacitación SAIA, acreditativo de la formación la persona competente en la construcción de andamios de marco. Aquellos que no cumplan con un 70% en el examen final recibirán un certificado de finalización y la tarjeta de bolsillo para la formación de conciencia de los peligros.

- El curso incluye un manual de formación, capacitación Persona Competente: andamio del marco, con las preguntas de autoevaluación de cada capítulo.
- El capítulo de las pruebas automáticas, se incluyen en el manual. El examen final se basa principalmente en las preguntas dentro de las pruebas de auto-y es importante que los estudiantes responden correctamente a las preguntas de autoevaluación. El completado correctamente la prueba de auto-preguntas se convierten en una guía de estudio muy útil para prepararse para el examen final.

**Modo de preparación:** Le recomendamos que registrarse con anticipación con el fin de que le permitan tener bastante tiempo para estudiar. Es absolutamente necesario que los participantes lean el libro de texto y completar todas las pruebas de auto-. Por favor de traer el libro de texto en el día de la clase para su revisión.

**Nota:** Si la designación de una persona competente tiene más de tres años, se ha vencido. Puede volver a certificar en este curso.

**SIAWE Quota: \$300.00**

**NOTA:** Ver Formación SIAMO Persona Competente - Marco andamio se presentan en Inglés el lunes, 23 de enero.

## SAIA Formación Persona Competente - andamios suspendidos (presentada en español)

*Presented by the Scaffold & Access Industry Association.*



**Session Code: SIATH**

**Jueves, January 26 | 7:30 am – 4:30 pm  
LVCC North Hall, Room N208**

Este programa está diseñado para usuarios de andamios suspendidos y cubre todos los aspectos de seguridad en relación con las etapas de andamio suspendido, cuerdas, reglamentos, requisitos de la barandilla, de protección contra caídas, grúas y componentes de la instalación. El formato del curso incluye una combinación de presentaciones, preguntas y respuestas, y un examen final.

Los participantes que obtengan una puntuación del 70% o más en el examen escrito Persona Competente recibirá un certificado de finalización y la tarjeta en la cartera del Programa de Capacitación SAIA, acreditativo de la formación de personas competentes andamio suspendido.

- El curso incluye el manual de capacitación, entrenamiento de seguridad para andamios suspendidos, con las preguntas de autoevaluación de cada capítulo.
- El capítulo de las pruebas automáticas, se incluyen en el manual. El examen final se basa principalmente en las preguntas dentro de las pruebas de auto-y es importante que los estudiantes respondan correctamente a las preguntas de autoevaluación. El completado correctamente la prueba de auto-preguntas se convierten en una guía de estudio muy útil para prepararse para el examen final.

**Modo de preparación:** Le recomendamos que registrarse con anticipación con el fin de que le permitan tener bastante tiempo para estudiar. Es absolutamente necesario que los participantes lean el libro de texto y completar todas las pruebas de auto-. Por favor de traer el libro de texto en el día de la clase para su revisión.

**Nota:** Si la designación de una persona competente tiene más de tres años, se ha vencido. Puede volver a certificar en este curso.

**SIATH Quota: \$300.00**

**NOTA:** Ver Formación SIAMO Persona Competente - andamios suspendidos se presentan en Inglés el martes, 24 de enero.

*Preguntas acerca de este programa deben dirigirse a Granville Loar con SAIA.*

*Tel: 816.595.4860 o correo electrónico [granville@saiaonline.org](mailto:granville@saiaonline.org) Para más información sobre SAIA ir a [www.saiaonline.org](http://www.saiaonline.org).*

## TMS Special Inspection of Structural Masonry Construction

*Presented by The Masonry Society.*



**Session Code: MOSIMC**

**Monday, January 23 | 8:00 am – 5:00 pm**

**LVCC North Hall, Room N206**

The seminar is aimed at helping inspectors, testing technicians, engineers and building officials identify and verify key quality assurance items on the jobsite. The seminar uses the International Building Code (IBC) and the MSJC (TMS 402/ACI 530/ASCE 5 & TMS 602/ACI 530.1/ASCE 6) as the primary references and it overviews related ASTM standards and inspection guides.

Attendees will learn code inspection requirements, proper placement of materials, mortar and grout, how to determine the compressive strength of masonry, and appropriate severe weather procedures. This is an excellent seminar for those preparing for the ICC/TMS Structural Masonry Special Inspectors Certification Examination.

John Chrysler of the Masonry Institute of America and Phillip J. Samblanet of The Masonry Society will co-present this informative seminar. Both Chrysler and Samblanet serve on the ICC/TMS Examination Committee responsible for the Structural Masonry Special Inspection Certification.

Topics covered will include:

- Basic terms, inspection duties and responsibilities
- Masonry material requirements including CMU, brick, mortar, reinforcement, connectors and grout
- Mortar mixing
- Basic construction including unit placement and tolerances
- Reinforcement placement
- Grouting
- Testing of units, grout and prisms
- Hot and cold weather construction

**NOTE: Space is limited, so register early!** Registration includes a comprehensive set of handouts worth more than \$150 and light refreshment breaks. Lunch is not included.

**MOSIMC Fee: \$390.00 on or before 12/8/11; \$480.00 after 12/8/11 and onsite**

*Questions about this program should be directed to Phil Samblanet with TMS.*

*Ph: 303-939-9700 or Email [info@masonrysociety.org](mailto:info@masonrysociety.org). For more information on TMS go to [www.masonrysociety.org](http://www.masonrysociety.org).*