

## ACI SHOTCRETE NOZZLEMAN CERTIFICATION PROGRAM, SINGAPORE

Supported by

Building and Construction





1st to bring this to Asia
3rd time in Singapore
years validity

### INTERNATIONAL RECOGNITION

as professional craftsmen

INDICATES: SAFETY & QUALITY Knowledge and capability to properly apply shotcrete

Shotcrete is used in many projects in Asia today. However, the quality of the shotcrete applied is sometimes suspect and there are unfortunately no standardised quality control methods to evaluate freshly placed shotcrete.

In this respect, a select group of experienced and acknowledged shotcrete experts has been approved by the American Concrete Institute (ACI) to act as examiners for the ACI Shotcrete Nozzleman Certification Program.

This program is focused on specific key elements of the shotcrete process such as knowledge, skills and abilities. It will be conducted by Prof. Marc Jolin.

Marc Jolin is an Full Professor in the Department of Civil and Water Engineering at Laval University, Canada and an active member of CRIB (Research Center on Concrete Infrastructures) . As an ACI Examiner and ASA Educator, he has conducted numerous Shotcrete Nozzleman Certification sessions. Jolin is the past-chair of the C660, Shotcrete Nozzleman Certification, and chair of the ACI committees 506, Shotcreting. His research and development interests include shotcrete, infrastructure durability, rheology and calcium aluminates cement.

### To be certified, you will need to meet the following requirements:

- A passing grade on the ACI written examination, and
- 2. Successful completion of the ACI (practical) performance examination.

8-9 OCT 2015

10 sign-ups required to conduct the course (RSVP by 23 Sep)

TRAINING FEE **\$\$3,500** 

to be paid upfront upon registration

20 PAX

REQUIREMENT

500 hours experience

in wet-mix shotcre

#### The program requires knowledge in the following areas of Shotcrete construction:

- 1. Basic concrete technology
- 2. Shotcrete Equipment
- 3. Environmental conditions and precautions
- 4. Inspection and preparation of surfaces
- 5. Shotcrete placement, principles, techniques
- 6. Communication
- 7. Finishing and tolerance controls
- 8. Safety
- 9. Testing / quality
- 10. Curing

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#### **Tentative Programme**

8-9 October 2015

<u>Day 1:</u>		
8:30	Registration. Collect course material	
9:00	Workshop - commence Basic concrete technology, placement, surface preparation, equipment, safety, etc	
10:00	Coffee Break	
10:30	Workshop	
12:30	Lunch	
14:00	Workshop	
15:00	Coffee Break	
16:00	End of Workshop	

<u>Day 2:</u>		
7:30	Written exam	
9:30	Coffee Break	
10:45	Depart to Spray Site for Hands-on shooting	
12:00	Start of Shooting test	
16:00	End of Workshop	