



- **Course Description: *Fundamentals of Concrete Technology*** – The OGCA and RMCAO are pleased to announce the development of a new gold seal course focusing on advanced concrete construction issues. This four day gold seal course is designed to educate project managers, project engineers, superintendents & foremen on the fundamental properties of ready mixed concrete. This course focuses on the fundamentals of ready mixed concrete design, production, transportation, placement, consolidation, finishing, curing and performance evaluation.



- **Here are just a few of the course objectives:**
 - Raw Materials and Concrete Production
 - Concrete Testing and Jobsite Quality Control
 - Concrete Specifications and Contract Drawings
 - Basics of Reinforced Concrete Design

Course Date(s): This course is four (4) Thursday's starting Thursday, May 17, 24, 31, 2012 and ending Thursday, June 7, 2012				
Time: 9:00 a.m.– 4:00 p.m.		Location: Ontario General Contractors Association, 6299 Airport Road, Suite 703, Mississauga, Ontario L4V 1N3		
Cost: \$1,099 (\$972.56.00+ \$126.43HST) Lunch will be provided.		Facilitator: Bart Kanter - RMCAO		
Please register the following person(s): (Print name as it will appear on certificate)				
Name:		Email:		\$
Name:		Email:		\$
Subtotal				
13% HST (R107797847RT)				
Total				
Company:		Contact Name:		
Address:		City:	Prov:	Postal Code:
Phone:		Fax:		
Space is available on a first come, first served basis, and can be held by faxing this form. Please fax back to (905)671-8212				
Payment must be received prior to the commencement of the course.				
Total Payment:		Paid By: (check one)		Cheque (Attached)
		Visa	M/C	
Credit Card Number				Expiry: month/year
Name on Credit Card:		Signature:		
Credit Card Payments may be faxed/mailed to the OGCA office. Cheques are to be made payable to: Ontario General Contractors Association and sent, with this completed form, to: OGCA, 6299 Airport Road, Suite 703, Mississauga, ON L4V 1N3 Phone: (905) 671-3969 Fax: (905) 671-8212				
Cancellation Policy: Full refund given to those cancellations received at least 3 weeks in advance. 50% refund for cancellations received 2 weeks in advance. No refund will be given to those cancellations received less than 1 week before classes start. Substitutions can be made any time prior to the start of the course.				

- **Overview:** The OGCA and RMCAO are pleased to announce the development of a new gold seal course focusing on advanced concrete construction issues. This four day seal course is designed to educate project managers, project engineers, superintendents & foremen on the fundamental properties of ready mixed concrete. This course focuses on the fundamentals of ready mixed concrete design, production, transportation, placement, consolidation, finishing, curing and performance evaluation.
- **Prerequisites:** Familiarity with concrete specifications and standards (CSA A23.1/.2), construction and evaluation on commercial projects.
- **Course Objectives:**

To provide students with knowledge in:

- Raw Materials and Concrete Production
- Concrete Testing and Jobsite Quality Control
- Concrete Specifications and Contract Drawings
- Basics of Reinforced Concrete Design
- Basics of Concrete Formwork
- Concrete Transportation, Placing, Finishing & Curing
- Concrete Troubleshooting
- Concrete Construction Methods and Architectural Concrete
- Sustainable Concrete Design & Construction

One of ready mixed concrete's greatest strengths is the fact that it supplied to the jobsite in a plastic state and can be molded into any shape or architectural finish imaginable and is strong and durable when cured and hardened. Concrete is also unique from the standpoint that since the concrete is supplied to the jobsite in a plastic state, there is great need for interaction between the concrete contractor, consultant and the concrete producer. All the construction team members must have a strong technical knowledge of the product to ensure the final hardened concrete meets its full potential and the requirements of the contract specifications. This course focuses on the technical aspects of both reinforced & un-reinforced concrete design, production, placement and curing.

Course Delivery

Delivery Method:

- 4 Thursday's (May 17, 24, 31 and June 7th 2012)
- PowerPoint, Case Studies, End of Chapter Review Questions
- 80% classroom setting, 20% Concrete Plant
- Supporting Documents:
 - Concrete Digest Workbook
 - Best Practices Guidelines for Concrete Construction

Method of Assessment:

- 20% Attendance
- 30% In class assignments
- 50% Closed Book Multiple Choice Examination
- Minimum Passing Grade = 70%