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ADVANCED COMPUTER APPLICATIONS IN CONSTRUCTION PROJECT MANAGEMENT

November 24-26, 2003

Mississauga, ON

DESCRIPTION

The workshop covers project management from basic principles to advanced concepts with particular emphasis on the management of time, cost, and resources. Participants receive hands-on training on various topics including cost estimating, scheduling, cost optimization, resource management, repetitive construction, cash flow planning, site-layout planning, and project control. Participants use a variety of custom and industry-standard computer applications (e.g., Microsoft Project) on case study projects. With extensive computer use, participants acquire the skills and the tools they can readily use in their work place to cope with tight budgets, strict deadlines and limited resources. Students will be working on computers under the instructor's guidance.

OBJECTIVE

To provide participants with the skills and tools they need to cope with the challenges they face in the planning and execution of construction projects.

WHO SHOULD ATTEND

Engineers, project managers, construction managers, construction contractors, construction superintendents, construction inspectors, officials of government agencies and other individuals involved in planning, building, or consulting on construction projects. Participants should have basic knowledge of computer use under the Windows operating system.

PROGRAM OUTLINE

Faculty: Dr. Tarek Hegazy, University of Waterloo

DAY I - BASICS

DAY II - BEFORE CONSTRUCTION

DAY 3 - DURING CONSTRUCTION

SPECIAL FEATURE:

Course material includes CD with applications and a text book "Computer-Based Construction Project Management" by Dr. Tarek Hegazy (Prentice Hall 2002)

1.8 CEUs / 18 PDHs

There will be a one hour lunch break each day in addition to a 20-minute refreshment and networking break during each morning and afternoon session.

Daily Schedule:

8:00 Registration and Coffee (1st day only)

8:30 Session begins

4:30 Adjournment

ACHIEVE THE LEARNING OUTCOMES TO:

master various quantitative methods for construction project management: Critical-Path Method (CPM), Detailed Estimating, Cash Flow Analysis, Earned-Value Analysis, and Critical-Chain concept for project control
enhance skills in industry-standard software (Microsoft Project) for project management

become familiar with various computer applications for site-layout planning, scheduling repetitive construction, and integrated cost and time management

acquire various techniques for dealing with limited resources, leveling the resource demands, and meeting deadlines

INSTRUCTOR

Dr. Tarek Hegazy, Professor of Civil Engineering, the University of Waterloo, Canada. Dr. Hegazy received an M.S.E. from the University of Michigan in USA, and a Ph.D. from Concordia University in Canada. Dr. Hegazy has held various professional and academic positions and participated in a wide spectrum of new / rehabilitation projects since 1981. His experience includes project planning and control, project management consultation, software development, and construction management training. Dr. Hegazy is the author of the textbook "Computer-Based Construction Project Management" published by Prentice Hall, in addition to over 80 technical publications on a variety of topics related to computational construction management. He also graduated many Master's and Ph.D.s. His expertise includes: management of infrastructure networks; resource optimization; decision support for project scheduling and control; competitive bidding; Artificial Intelligence and information technology applications in construction; and internet-based collaboration in design & construction. Dr. Hegazy is also the president of OPTTEAM Project Management Consultants Inc.

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You may e-mail the
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COURSE LOCATION

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GROUP DISCOUNTS AND WITHDRAWALS

Registration covers all program materials, refreshments during breaks and lunch but excludes accommodation. For organizations sending more than one participant, a 10% discount to the fee applies to the second and subsequent registrations. To withdraw from a course, you must send your request in writing with the official receipt to our office.

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☐ **ADVANCED COMPUTER APPLICATIONS IN CONSTRUCTION PROJECT MANAGEMENT**

November 24-26, 2003 Toronto, ON (94-1128-1485)
The fee for this course is **\$1,750 + GST**. If you register after October 27, 2003 the fee increase to \$1,950 + GST.

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PAYMENT METHOD: (Payment must be received before the seminar/course start date.)

Tuition (Canadian funds): \$ _____

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