

Project Management Fundamentals for Construction Professionals

3-Day Training Program – February 5-7, 2018

Cost: \$1,500.00 plus GST (Books included)

All of us have experience in project management; however our methodologies, disciplines and approach may not be the same.

This course provides the effective and sound application of a wide range of techniques and tools throughout the project life cycle. This course aims to develop in the students' capability and desire to employ and effectively apply sound project management principles to effectively manage increasingly complex construction projects. Specifically, the course will provide participants with deeper understanding of key project management principles such as project procurement methods, planning and scheduling, cost estimating and budgeting, resource levelling, project monitoring and control, and contract administration. The course will discuss project management principles, practices, techniques, and tools, to provide participants with an opportunity to learn key project management concepts.

Instructor-led Training

Join our instructor, Mahmoud Halfawy, Ph.D., P.Eng., PMP who is a leading expert in project management and construction management systems, as both basic concepts of project management and in-depth essential elements for managing successful projects are demonstrated.

COURSE OBJECTIVES

- ✓ To learn fundamental project management concepts and techniques required for managing large and complex construction projects.
- ✓ To appreciate the complex technical and managerial challenges in managing construction projects, and to learn effective methods for addressing these challenges
- ✓ To be acquainted with the role of project management methods in enhancing and optimizing projects.



TARGET AUDIENCE

Construction project managers, engineers, superintendents, cost estimators, procurement managers, project administrators, and techniques required for managing large and complex construction projects.

Register online today or contact us at 306-244-6340

Course Modules

1) Introduction

- Overview of project management
- Project life cycle
- Characteristics of construction projects
- Project Management processes
- Project roles and organization structure
- Project stakeholders
- PMI Process groups
- Knowledge areas
- Project Framework
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2) Project Procurement & Contracting

- Project procurement methods
- Bidding
- Standard-form contracts
- Contract terms
- Contract administration issues
 - Change orders
 - Change directives

3) Cost Estimation

- Purpose and types of estimates
- Techniques for early estimates
- Preliminary and detailed cost estimating
- Economic feasibility analysis
- Cost components
- Estimating total project cost

4) Microsoft Project 2013

- Introduction
- Project Scheduling

5) Planning and Scheduling

- Work breakdown structure
- Activity definition
- Estimating activity duration
- Activity dependencies
- Precedence relationships
- Critical path method (CPM)
- Computations
- Resource-constrained scheduling
- Duration compression
 - using crashing

6) Project Monitoring and Control

- Defining Schedule
- Defining Budget baseline curves
- Measuring
- Analyzing
- Reporting
- Earned-value analysis
- Assessment of cost deviations
- Schedule deviations
- Performance
- Forecast progress
- Forecast cost at completion

Upon completion of this program, SBC will award you a Certificate of Completion.



For registration details please contact us.

- **Microsoft Project Hands-on Exercise:**
 - Building a WBS and document work packages details
 - Defining Project tasks duration and precedence relationships
 - Defining Project resources and assigning resources to tasks
 - Defining Resource Costs and Budget information
 - Scheduling calculation, evaluation, and refinement
 - Entering actual progress and cost data
 - Updating progress tasks, costs, and resource use
 - Evaluating project schedule and budget performance
 - Earned value analysis
 - Implementing a change management system
 - Generating and customizing project reports
 - Managing multiple projects (setting up a Master Project and defining resource pools)
 - Sharing and exchanging MS Project data and other applications
 - Customizing MS Project and defining templates
 - Introduction to MS Project automation /Programming

For additional course listings visit www.sbccollege.ca/corporate

Please call (306) 244 - 6340 or email corporate@sbccollege.ca to register