



**Course:** A Professional Certificate in Managing Construction Projects

**Contact Hours:** 24

**Pre-requisite:** None

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### **Abstract**

One of the issues that exist within the local construction industry is that while there might be the technical know-how in the area of construction practice, many times there is a lack of understanding in project management practices or theories. This tends to have a negative impact on the successful implementation of local construction projects. This course attempts to fill the knowledge gap that exists within various facets of the local construction industry.

This course will provide an understanding and an appreciation of the key tools, techniques and outputs associated with managing construction projects from start-up to close-out. The course will provide an overview of the steps in the overall project management process and will also provide an understanding of key project management tools and techniques. The course will provide a rich combination of both:

- Theory & Practice
- Case Study and Real Life examples
- Lectures and Class Dialogue
- Individual and Group Work

### **Target Audience**

The target audience includes, but is not limited to stakeholders in the Engineering & Construction Industry, who would want an understanding and appreciation of the steps in the overall project management process, an overview of key project management tools and techniques that are used to initiate, plan, execute, monitor, control and close-out of the project.

- Project Sponsors
- Project Managers & Members of Project Teams
- Small & Medium Contractors
- Construction Consultants
- Project HSE & QA/QC Personnel
- Construction Managers and Supervisors

## **Learning Outcomes**

On completion of this course, learner will be able to:

- 1) Recognize the benefits of using a sound project management approach to manage projects
- 2) Identify the overall framework of projects and project management
- 3) Employ the language, terms and concepts in project management
- 4) Apply project management tools, techniques and methodologies

## **Course Content**

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### **1) Describe the Project Management Framework – learning Outcomes 1,3,4**

- Definition of a Project & Project Management

### **2) Initiate the project:**

- Evaluate the organization environment and culture on the project deliverables.
- Identify key stakeholders and obtain approval for the project.

### **3) Develop the Project Plan**

- Obtain stakeholders requirements, prepare a project scope statement and work breakdown structure.
- Define project activities and identify the project's critical path.
- Determine quality requirements for the project.
- Evaluate project risks and select appropriate risk response strategies.
- Estimate project cost and prepare a budget for the project.
- Select the most appropriate organization to implement the project and prepare a communication plan.

### **4) Monitor, Control and Execute the project:**

- Identify techniques for effective project monitoring and control
- Discuss the main focus of the project manager during the execution phase of the project.

### **5) Close off the project:**

- Identify key activities to effectively close off the project.

## **Essential Learning Resources**

### **Course Manual**

- Fundamentals of Project Management - Tools and Techniques - by Rory Burke

### **Reference Websites**

- [www.projectmanagementdocs.com](http://www.projectmanagementdocs.com)
- <http://projectnewstoday.com>