

# Programme in Project Management for Engineers

## ► OVERVIEW

### INTRODUCTION

The engineering environment is entirely dependent on sound project management for the management and delivery of its products. This practical, how-to-do-it programme was developed from the highly successful generic Programme in Project Management of USB Executive Development (USB-ED). The generic programme has been completed by more than 11 000 participants since 1992.

### WHAT SETS THIS INTERVENTION APART?

The Programme in Project Management for Engineers presents all the principles, processes, techniques and requirements for the focused and integrated management of engineering projects by a specific team against planned targets of time and cost, as opposed to functional management. To equip professionals with the logic behind and the principles of project management, a generic approach is followed and no particular project management methodology is presented or promoted.

### FOLLOW-UP PROGRAMMES

- Programme in Scheduling in MS Project (3 days)\*
- Programme in Advanced Project Leadership (5 days)\*
- Programme in Advanced Project Metrics (5 days)\*

\* programme flyers available on request

## ► WHO

### WHO SHOULD ATTEND?

This programme is aimed at engineers, middle to senior engineering managers, building contractors, quantity surveyors and architects who are involved with launching, or are required to launch or manage projects.

### ADMISSION REQUIREMENTS

A relevant qualification, as well as experience in engineering, construction management, quantity surveying or architecture is required.

### FACULTY PROFILE

Mr Coenie Nel, Pr Eng (BEng (Civil), MBA) | Other professional subject experts

## ► WHAT

### CONTENT OVERVIEW

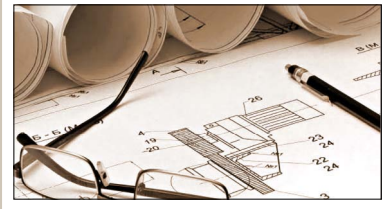
The following content will be covered:

#### ORIENTATION TO PROJECT MANAGEMENT

Defining project and project management; the generic tasks of project management; the four foundations of the project management approach; project portfolio management and the relationships of projects to an organisation's strategy; project selection: project plans to be implemented; the project management process and project life cycle management; setting a course of action / keeping to the course of action; importance of performance, duration and cost standards/norms; relationships performance/ cost/time.

#### ORGANISING FOR PROJECT MANAGEMENT

Cross-functional organisation; matrix relationships for projects; responsibilities of the role players, i.e. top management, line managers, project sponsors, project managers; the interaction between project managers and functional inputs; comparing project management with operational management.



## WHEN & WHERE

CAPE TOWN

23 – 27 July 2012

Class times: 08:15-17:30

## FEES

FEES

R12 900

*Please note that programme fees, faculty and dates are subject to change.*

## ENQUIRIES

CONTACT PERSON:

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## FORMULATION OF THE PROJECT SCOPE

The importance of early and complete scoping of a project; the process for the formulation of the project scope, including setting the goals, selecting the best way to execute the goals, evaluation of the stakeholders, determining the main components, inclusions, exclusions, assumptions and project risks; statement of work and work breakdown structure.

## TIME MANAGEMENT

The construction of precedence diagrams and Gantt charts for projects with non-repetitive tasks; manipulation of float for duration and resource planning; resource loading and balancing

## COST MANAGEMENT

Principles of activity-based and benchmarking costing; integration of financial and cost management; types of costs; estimating the project budget; monitoring variances of actual to planned cost and schedule; cost and progress information systems

## NQF ALIGNMENT

This programme is presented on the complexity level of an NQF 8.

## ► BENEFITS

### HOW WILL YOU BENEFIT?

After completing this programme participants will be enabled to:

- understand and apply the philosophy, principles and techniques required for the analysis, planning and management of any kind of project
- understand the scoping of a project of any size or complexity, in any industry.

## CERTIFICATION

On successful completion of the programme, participants will receive a certificate from the University of Stellenbosch. Successful candidates will also automatically become Associate Members of Project Management South Africa.

## CREDITS

On successful completion of this programme, participants are eligible for **10 credits towards the present curriculum of the MBA-degree and the MDevFin-degree of USB**, subject to the following conditions:

- Credits towards the MBA- or MDevFin degree cannot be gained on a group assessment. Therefore delegates that are interested to gain credits for this programme towards the MBA- or MDevFin of the USB, must either submit the assignment individually or, in addition to a group assignment (60% pass mark), pass an individual 3 hour closed book examination (50% pass mark).
- Gaining these credits does not automatically allow, nor guarantee acceptance on the MBA- or MDevFin programme of the USB, nor obviate the application process.
- The writing of the examination and subsequent claim to credits towards the MBA- or MDevFin can be exercised any time up to three years after gaining the certificate.

Completion of this programme also entitles the delegate to exemption from the Project Management module in the Senior Management Development Programme.

USB-ED is registered as a platinum status Registered Education and Training Provider at **PMSA (Project Management South Africa)** and completion of this programme will qualify a delegate as a member of PMSA.

USB-ED's Programmes in Project Management and Advanced Project Management are now accepted by the **Engineering Council of South Africa (ECSA)** as learning programmes. On successful completion of one of these programmes, a professional engineer may earn 5 Continued Professional Development (CPD) credits towards Category 1, by applying to ECSA.

## ASSESSMENT

The home assignment consists of the development and submission of a project plan for a project of own choice by a syndicate of a maximum of 5 persons. The pass mark is 60%. Assignments must be submitted within approximately 6 weeks after the course work.

## ► ResourcED

USB-ED's ResourcED is a resource hub that sorts through the clutter and presents a collection of articles from reputable sources on the following topics: **Applied Entrepreneurship | Business in Society | Project Management**

Our Centre of Excellence executives continuously select these articles from the most trusted online sources to provide you with important and relevant subject matter. Visit <http://resourced.usb-ed.com> for further information.

## ► FEES

### FEES

R12 900

Fees include programme fees, programme material, lunch and refreshments, and are payable before the commencement of the programme.

## CANCELLATION POLICY

It is of utmost importance that USB-ED be formally notified of cancellation 14 days prior to the commencement date of the programme. A cancellation fee of 10% will be payable for cancelling fewer than 14 days prior to the commencement of the programme.