

► OVERVIEW

INTRODUCTION

Two programmes in Advanced Project Management are presented by USB Executive Development (USB-ED), namely the Programme in Advanced Project Metrics and the Programme in Advanced Project Leadership. These programmes have been designed for project managers who wish to develop skills over and above those considered to be the minimum required for career project managers.

WHAT SETS THIS INTERVENTION APART?

Project Management makes it possible to integrate the focus on priorities, track and measure performance, overcome challenges and problems, become flexible enough to adapt to change and achieve higher performance. The Programme in Advanced Project Metrics is aimed at equipping project managers with advanced career skills and in-depth knowledge of advanced project metrics, including: the critical chain as the advanced version of the critical path, the balance line technique to manage projects with repetitive elements (for which the critical path diagram approach is not suitable), inserting resource dependencies into the critical path diagram through the balancing of resources, optimising the duration of a project after the critical path has been established, the contract price adjustment technique for unavoidable cost increases, and the qualification and quantification of project risks and an advanced view of the management of project risks to gain a competitive advantage in project execution.

FOLLOW-UP PROGRAMME

- Advanced Programme in Project Leadership (5 days)

PAST PARTICIPANTS COMMENTS

"This is a very valuable course which gave me much to think about." – Linda McPherson, Project Manager

"Excellent course. Well structured and well balanced." – MJL Miller, Project Manager, PGWC

"This course was excellent. It gave me good tools to use in future. Thank you." – J. Heydenreich, Manager, Dimension Data Namibia

► WHO

WHO SHOULD ATTEND?

The Programme in Advanced Project Metrics is targeted at project managers who aim to enhance their competencies related to the complexities of managing project teams dealing with matters of conflict and organisational dynamics supportive of project execution. Project Management is increasingly recognised as a profession to contribute to organisational success. USB-ED's advanced programmes in project management are part of the learning pathway to becoming a career project manager.

ADMISSION REQUIREMENTS

The prerequisite for the advanced and specialist programmes is the successful completion of the Programme in Project Management of USB-ED. However, candidates with proof of having successfully completed a similar programme on NQF level 6, 7 or 8 will also be accepted. It is highly recommended that candidates have at least 3 years of practical experience in project management. For the Advanced Programme in Project Metrics, mathematical proficiency on NQF level 4 is a requirement.

FACULTY PROFILE

Mr MC Botha | Mr Hendrik Louw



WHEN & WHERE

CAPE TOWN

5 - 9 November 2012

Class times: 08:00 - 16:45

FEES

FEES

R13 700

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 in writing 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.

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

ENQUIRIES

CONTACT PERSON:

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▶ WHAT

CONTENT OVERVIEW

Please note that modules are subject to change, depending on the availability of local and international experts.

The Programme in Advanced Project Metrics will enable participants to analyse, plan, manage and track the quantitative side of the management of projects, over and above that which is offered in USB-ED's well-known Programme in Project Management.

The programme will consist of the following modules:

CRITICAL CHAIN SCHEDULING

The objective of this module is to comprehend the differences between, and the value added by, the Theory of Constraints, resource dependent scheduling and critical chain scheduling, when compared to precedence diagram scheduling.

BALANCE LINE TECHNIQUE

This module focuses on scheduling of projects with repetitive elements and/or activities, as opposed to critical path scheduling, which can only address one-off activities.

OPTIMISATION OF DURATION AND BALANCING OF RESOURCES

The objective of this module is to acquaint the participant with balancing and levelling of resource loads over the duration of the project, where common critical path scheduling reveals big fluctuations in resource load over the duration of the project, through the utilisation of float. The module will also focus on how to optimise duration of a project after critical path scheduling based on the balancing of fixed and variable costs.

PRICE ADJUSTMENT FOR INDETERMINABLE RISKS

This module focuses on price adjustment for indeterminable risks: an approach to adjust justifiably and equitably the contract price after an indeterminable risk is discovered and how the acceptance and division of risks between the parties determines the appropriate contractual option

ADVANCED PROJECT RISKS

The principles of risk, qualification and quantification of risk

NQF ALIGNMENT

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

▶ BENEFITS

HOW WILL YOU BENEFIT?

The Advanced Programme in Project Metrics will enable participants to participate fully in the analysis, planning, management and tracking of the quantitative issues of project management. After completion of the Programme in Advanced Project Metrics, participants will be enabled to:

- deal with resource dependencies in project scheduling, which is not possible with critical path scheduling through critical chain scheduling;
- schedule projects with repetitive elements, which is not possible with critical path scheduling through the Balance Line Technique;

- address optimum resource application through the balancing and levelling of resources and the optimisation of project duration;
- quantify project risks and establish the appropriate contract types associated with the risks to be accepted by the various parties to a contract, and mitigate the risks accordingly;
- apply the contract price adjustment techniques for indeterminable cost increases, specifically to deal with inflation.

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.