

B I O M A T R I X Project Design

The Biomatrix Project Design Course explains the theory and methodology of complex problem (dis)solving and the generic principles of how activity systems are organised, develop and change. These principles are applied to the design of a project as a coherent, coordinated and sustainable value and supply chain.

Participants use a personal project or an organizational project of which they are a part as the case study system throughout the course. In template-driven assignments they identify requirements, analyse problems, brainstorm solutions, create an ideal design and plan the implementation of the design of the case study project.

PARTICIPANT PROFILE

The programme is aimed at

- anyone wanting to learn about designing and managing a project
- experienced project managers who want to learn the generic systemic principles of project design
- system analysts and other IT specialists concerned with structuring the information flow associated with systemic project design and implementation.



Facilitator: Dr Elisabeth Dostal

She is a leading systems thinker who co-developed Biomatrix systems theory and methodology. As a prominent systemic management consultant, researcher and educator, she has gained considerable experience about sustainable business and organisation development in private and public sector organisations and NGOs. She also taught on several South African and European MBA programmes, published in scientific journals, and is the author of two books. She established BiomatrixWeb, a consulting organisation with an education-driven approach to organisational and societal change and BiomatrixSchool, which delivers online courses on sustainable system design.

Programme modules

1. OVERVIEW OF BIOMATRIX SYSTEMS THEORY

This module explains the key concepts and methods of systems and complexity theories in general and of Biomatrix systems theory specifically. Self-reflection assignments promote a (w) holistic view of the world and of sustainability.

2. SYSTEMIC PROBLEM (DIS)SOLVING

This module explains the theory and practical steps involved in complex problem analysis and dissolving them through ideal system redesign. Assignments guide problem analysis and brainstorming of solutions for the case study system.

3. SEVEN FORCES OF SYSTEM ORGANISATION: ACTIVITY SYSTEM PERSPECTIVE

The module explains activity systems as value and supply chains based on seven organizing forces and their organising principles. Assignments guide the ideal design of the case study system.

4. IMPLEMENTATION PLANNING

This module explains how to make an implementation plan for an ideal design. Assignments guide the implementation planning of the case study design.

The programme as a learning investment

After completing the course the participants will be able to:

- think more (w)holistically and creatively
- explain the generic principles of how systems are organized, develop and change in a sustainable manner
- apply the theory and methodology of sustainable system design in general and its application to a project design specifically
- facilitate issue identification, problem analysis, brainstorming, system design and implementation planning relating to a project
- explain the different types of activity systems (i.e. project, function, business process, industry supply chain and governance function) and apply the generic knowledge of activity system (re)design and transformation to them.

The programme is presented online and participants will be required to complete individual assignments.



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

Fees

R11 500 (non-VAT payable)

Fees include programme materials and are payable before the commencement of the programme. A cancellation fee of 10% will be payable for cancelling fewer than 14 days prior to the commencement of the programme.

When and where

ONLINE:

Self-managed with a Certificate of Competence from Stellenbosch University:

STARTING:

15 June & 15 September

TIME COMMITMENT:

25 hours of video lectures and an average of 200 hours of study and assignments, to be completed within 12 months

Enrol now

Enquiries

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Admission Requirements

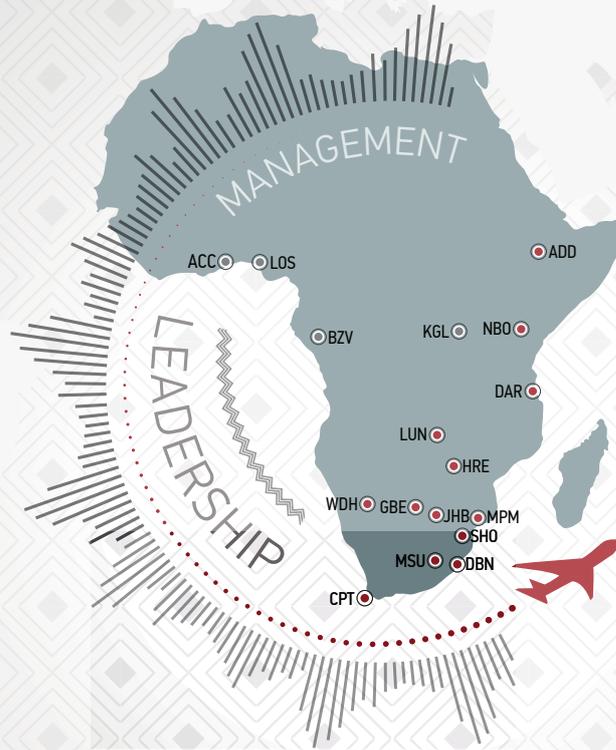
No formal tertiary qualifications are required. Participants should have minimum English language competence at NQF level 4 or equivalent and some management experience.

NQF Alignment: Level 7

The scope and presentation of this programme are aligned with the National Qualifications Framework (NQF) level 7.

Certificate of Competence

On successful completion of the programme, you will receive a certificate of competence from Stellenbosch University.



- Management programmes are actively presented in these countries.
- USB-ED will be expanding its executive development services in these countries.

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At USB Executive Development (USB-ED) you will join a proudly African company that shares in the rich heritage and academic rigour of Stellenbosch University, yet offers the entrepreneurial culture of business. USB-ED was established as the designated public executive education provider within the University of Stellenbosch Business School (USB) in 2001. The company's footprint has since expanded across the continent, with local presences in South Africa (Cape Town, Johannesburg and Durban), in Addis Ababa, Ethiopia and in Dar es Salaam, Tanzania.

USB-ED has won the PMR.africa Diamond Arrow Award in three countries: Botswana, Namibia and South Africa.

The USB's international standing and reputation is confirmed by the triple crown international accreditations, EQUIS, AMBA and AACSB.



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