



Consulting Engineers South Africa

INFRASTRUCTURE  
**Indaba**

**ENGINEERING THE FUTURE NOW!**

18 - 19 AUGUST 2022



**Sculpting the future of  
consulting engineering**  
Brenda Lacey-Smith

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# Sculpting the future of consulting engineering

**URNS GOOD ENGINEERS INTO EXCELLENT ENGINEERS**

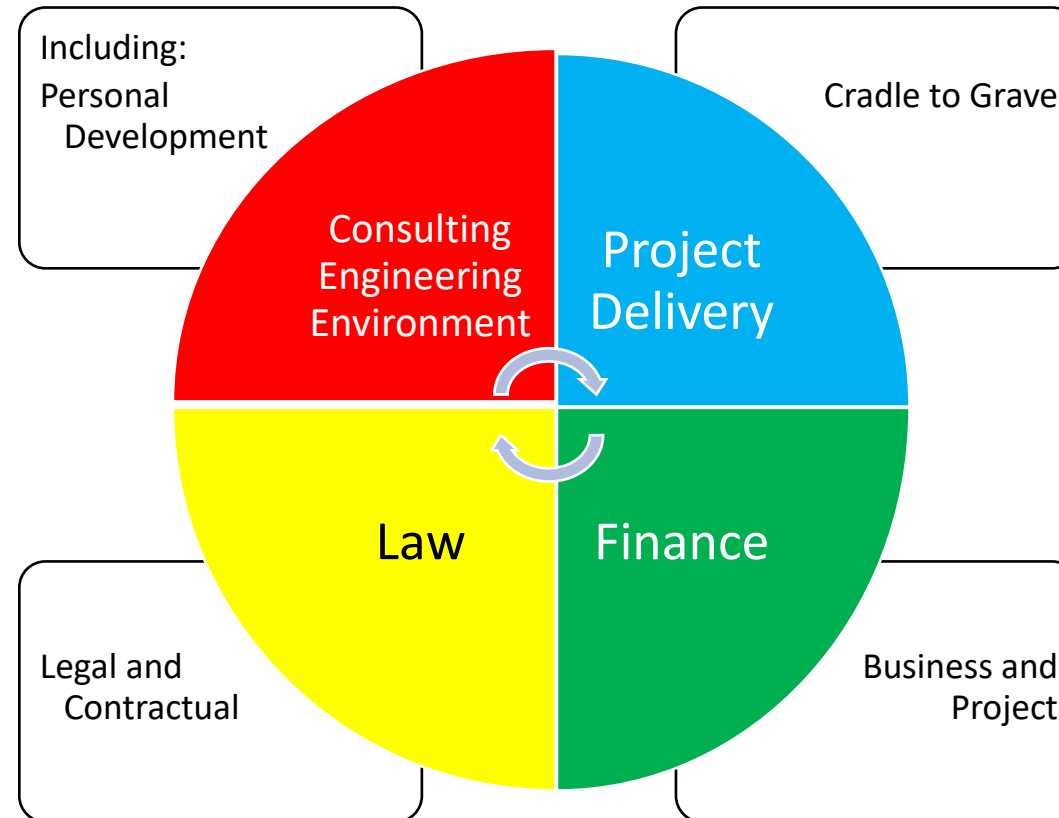
## **Business of Consulting Engineering (BCE) Management Development Programme**

## Why enrol for the BCE programme?

- Develops **non-technical skills** for young professionals
- Prepares **young talent** to be **legitimately fast tracked** into **future leaders**
- Young professionals will acquire a **more comprehensive understanding** of the **consulting engineering environment** and the **entrepreneurial side of the business**.
- Will **benefit non-engineers** working in a consulting engineering environment
- Relevant to any consulting engineering firm from **one-person practices to large multi-national firms**
- **B-BBEE Scorecard:- Enterprise Development (ED) and Supplier Development (SD)** is one of the three Priority Elements. *An Entity may make monetary or non-monetary contributions to a Beneficiary Entity*



**BCE offers the following modules:**



## **BCE Development Programme Rollout:**

- **One afternoon online class per week**, consisting of **two or three lectures**
- Over **50 topics** presented by **14 Subject Matter Experts**
- Access and use of the **CESAnet student portal and library**
- **Individual student mentor support**
- **Extensive training material**, including the 'Role of the Consulting Engineer during Project Delivery'
- **Individual feedback on assignments**
- **Online exams** at the end of the year

### • **MODULE 1: CONSULTING ENGINEERING ENVIRONMENT**

Consulting Engineering Environment - Chris Campbell  
 Consulting Engineering Industry - Chris Campbell  
 Consulting Engineering Firms - Chris Campbell  
 Codes of Conduct Ethics and Integrity – Zulch Lotter  
 Business Quality & Risk Management - Diane Liebenberg  
 Professional Liability & Negligence - Sam Valera  
 Legislation Affecting Construction Projects - Craig Clarke  
 Health & Safety / The Construction Regulations - Sam Valera  
 Introduction to Economics - Craig Lemboe  
 Introduction to Sustainable Development - Sonja De Klerk  
 Negotiation Skills - Ron Walter  
 Stress Management - Ron Walter  
 Business, Technical & Report Writing Skills - Sandra Pienaar  
 Time Management - Ron Walter  
 Problem Solving and Decision-Making - Ron Walter  
 Communications Skills - Ron Walter  
 Teamwork - Ron Walter  
 Conflict Management - Ron Walter

### • **MODULE 2: PROJECT DELIVERY**

Concept of Project Delivery - Billy Galal  
 Project Cycle - Billy Galal  
 Project Planning & Scheduling - Diane Liebenberg  
 Project Controls - Diane Liebenberg  
 Project Risk Management - Diane Liebenberg  
 Project Quality Management - Diane Liebenberg  
 Project Inception & Client Relationships - Billy Galal  
 Liaison Communications and Meetings - Billy Galal  
 Problem Solving in Projects - Diane Liebenberg  
 Outside and Site Factors - Billy Galal  
 Design Process - Billy Galal  
 Manage Changes in Projects - Diane Liebenberg  
 Manage Documentation - Diane Liebenberg  
 Contractual Documentation & Procurement - Billy Galal  
 Construction Administration - Billy Galal  
 Site Inspections and Monitoring - Billy Galal  
 Project Completion and Close-Out - Billy Galal

### **MODULE 3: LAW**

Introduction to the SA Legal System - Hugh Lane  
 Legal Structures of SA Businesses - Hugh Lane  
 Legislative Requirements of the Public Sector - Mike Rivarola  
 Procurement of Professional Services - Mike Rivarola  
 Professional Services Agreements - Mike Rivarola  
 Conditions of Contract for Projects - Mike Rivarola  
 Application of Conditions of Contract Projects - Mike Rivarola

### **MODULE 4: FINANCE**

Introduction to Finance - Geoff Mendelowitz  
 Accounting Principles and Practice - Alex Nortje  
 Comprehend the Accounting Process - Alex Nortje  
 Income Statement and Balance Sheet - Alex Nortje  
 Cash Flow and Working Capital Requirements - Alex Nortje  
 Key Financial Indicators - Alex Nortje  
 Financial Processes during Project Planning - Geoff Mendelowitz  
 Contract Financial Administration - Geoff Mendelowitz  
 Consulting Fees - Craig Clarke  
 Project Revenue - Geoff Mendelowitz  
 Project Expenses - Geoff Mendelowitz  
 Project Budgeting, Reporting and Controls - Geoff Mendelowitz

#### **SUBJECT MATTER EXPERTS**

**Alex Nortje**  
**Billy Galal**  
**Chris Campbell**  
**Craig Clarke**  
**Craig Lemboe**  
**Diane Liebenberg**  
**Geoff Mendelowitz**

**Hugh Lane**  
**Mike Rivarola**  
**Ron Walter**  
**Samantha Valera**  
**Sandra Pienaar**  
**Sonja De Klerk**  
**Zulch Lotter**

## Who meet the entrance requirements?

- ❑ **BSc/BTech degree with 2 years' postgraduate experience** in a consulting engineering firm, or
- ❑ **Technical Diploma with a minimum of 5 years' post graduate experience** in a consulting engineering firm and a **letter of motivation from the employer**
- ❑ Relevant **non–engineering qualification (Business Management, Finance, HR, Legal)** with a minimum **3 years' experience** in a consulting engineering firm

Applications from students who lack the above basic requirements will be considered, provided these are accompanied by a detailed written motivation from the applicant's employer. Experience has proven that students without these requirements usually struggle



**For further information go to:**

**<https://www.cesa.co.za/sce/>**



**SCE**

School of Consulting Engineering

**Brenda Lacey-Smith**

**Manager: Education and Training**

**CESA School of Consulting Engineering**

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***“Education is the most powerful weapon  
which you can use to change the world.”***

**Nelson Rolihlahla Mandela** 

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