

# Training Solutions in Engineering, Built Environment and Information Technology

Presented by the Department  
of mining Engineering

## Overview

As a result of more rapid technological advances and potentially unlimited opportunities for developing sustainable and profitable business models for the future, now is the time for construction and the built environment to look towards more innovative ways to serve its customers and deliver new production capabilities across all sectors. Our products and services in Built Environment and construction will equip you with knowledge and practical skills to make a shift in embracing the impacts and challenges of the Fourth Industrial Revolution.

## Courses Name



- ✓ A Hands-on Approach to Microcontrollers
- ✓ Administration of output based as well as performance-based contracts
- ✓ Advance Statistical Analysis
- ✓ Advanced Programme in Shopping Centre Leadership
- ✓ Advanced Aircraft Accident Investigation Course
- ✓ Advanced Coal Preparation
- ✓ Advanced Course in Facilities Management
- ✓ Advanced Course in Rural and Regional Design
- ✓ Advanced Course in Shopping Centre Leadership
- ✓ Advanced Course in Water Treatment Processes
- ✓ Advanced Course on Computer Training
- ✓ Advanced Earned Value Management
- ✓ Advanced Income Capitalisation Valuations
- ✓ Advanced Modelling and Simulation of Wastewater Treatment Processes and Aquatic Systems
- ✓ Advanced programme in claims under standard form construction contracts
- ✓ Advanced Programme in Project Leadership
- ✓ Advanced Programme in Shopping Centre Leadership
- ✓ AI and Data Science as a professional tool
- ✓ An Introduction to Mining
- ✓ Basic Extractive Metallurgy
- ✓ Basic Routine Health Information Systems for Data Capturers
- ✓ Basic Sustainable Landscape Design with focus on Paving Design and Application
- ✓ Business Analysis for Business Intelligence (BI)
- ✓ Business and Systems Analysis
- ✓ Business Case for IT Professionals
- ✓ Capacity Building Staff on Project and Contract Management
- ✓ Carbon Footprinting - From Strategy to Practical Tool
- ✓ Chamber of Mines Geotechnical Engineering Practitioner Theory
- ✓ Cisco Certified Networking Associate: Routing and Switching
- ✓ Civil Engineering Materials Testers Course: Soils & Gravels Testing
- ✓ Cloud-Computing Auditing Training Course
- ✓ C-MiRM (Course for Managers in Risk Management)
- ✓ Commercial Property Economics
- ✓ Comprehensive Project Management Programme (CPMP) for Built Environment Practitioners
- ✓ Construction Contracts
- ✓ Construction Regulations for the Mining Sector Legal Liability Workshop
- ✓ Cost estimation and preparation of bills of quantities
- ✓ Critical and analytical thinking in practice
- ✓ Cybersecurity
- ✓ Data Analysis - An Introduction Approach
- ✓ Data Management and Data Skills Programme
- ✓ Data Stewardship and Data Governance
- ✓ Data Storage for Decision Support
- ✓ Decision and Risk Management
- ✓ Development Programme for Supervisors
- ✓ Digital First (Getting to Grips with Digital)
- ✓ Digital Forensics and Investigations
- ✓ Digital Literacy Training for Insurance Sector
- ✓ Digital Revolution Programme

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- ✓ Digital Signal Processing and Wiring for Electrical Engineers
- ✓ Effectiveness of applying dust suppression palliatives
- ✓ Engineering Communication: Air Traffic Navigation Systems (ATNS)
- ✓ Enterprise Risk Management Programme for Executives members (ARM)
- ✓ Enterprise System Development using Java Spring RMB
- ✓ Environmental Management and Regulation
- ✓ Financial Management for Engineers
- ✓ Flood Hydrology and Urban
- ✓ Intro to Data Science for Finance Professionals
- ✓ Introducing to 4IR Processes of Digitization for the Design and Manufacturing of Engineered Timber
- ✓ Introduction Course to Air Quality Management
- ✓ Introduction to Asset Management
- ✓ Introduction to Business Intelligence
- ✓ Introduction to Critical State Soil Mechanics
- ✓ Introduction to Data Informed Decision Making
- ✓ Occupational Hygiene Module for the SHEC Mineral Resources Industry
- ✓ Operation of Water and Wastewater Treatment Plants
- ✓ Operational Risk Management in the Mining Industry
- ✓ Polymer Processing and Plastics Product Development
- ✓ Practical Electrical Wiring
- ✓ Practical Geotechnical Engineering
- ✓ Principles and Practices of Business Analysis
- ✓ Procurement and Tendering Procedures
- ✓ Programme and Portfolio Management
- ✓ Programme for the Commercial Property Practitioner
- ✓ Programme in Asset and Maintenance Management
- ✓ Programme in Blasting Engineering
- ✓ Programme in Construction Adjudication
- ✓ Programme in Energy Efficiency for buildings and Wastewater Treatment Plants
- ✓ Programme in Engineering Management
- ✓ Programme in Information Systems Analysis and Design
- ✓ Programme in Innovation and Technology Management (PITM)
- ✓ Programme in Maintenance Management
- ✓ Programme in Rock Engineering
- ✓ Project Financial management
- ✓ Project Quality
- ✓ Project Risk Management
- ✓ Rail Business Performance Enhancement Program for Managers
- ✓ Railway Asset Management
- ✓ Railway Infrastructure Maintenance Management
- ✓ Railway Safety Audits
- ✓ Regulation of Radiation Protection in Mining and Milling
- ✓ Reliability Methods in Geotechnical Engineering
- ✓ Renewable Energy: Distributed Generation
- ✓ Risk and Reliability Analysis in Geotechnical Engineering
- ✓ Technology Neutral Analysis and Design using UML and URDAD
- ✓ The Management of Continuously Welded Rails
- ✓ Theoretical Soil Mechanics
- ✓ Thinking Accelerator for Personal Development
- ✓ Time-Value of Money for Property Practitioners
- ✓ Toolkit on Registration and Management of a Non-Profit Organisation
- ✓ Tools for Personal Mastery
- ✓ Track Geotechnology Course
- ✓ Train Movement Control Systems
- ✓ Unmanned Aircraft Systems (UAS) Technology
- ✓ Urban Layout Planning
- ✓ Valuation of Properties Under Construction and Principles of Feasibility
- ✓ Vision Control and Vision Mixing

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- ✓ Waste Minimisation and Remediation
- ✓ Water Analysis and Monitoring
- ✓ Water Quality Management and Effluent Treatment
- ✓ Water Resources Planning
- ✓ Wheel–Rail Interaction
- ✓ Women in Mining: Leadership Development Programme
- ✓ Workplace Development Programme

## Accreditation and Certification

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