

Building Information Modelling (BIM) for Practitioners FACT SHEET

African Academy
15 Reservoir Street,
Boksburg East Industrial, Gauteng
PO Box 26061, East Rand, 1462



Tel: +27 (0) 11 914-4340
Fax: +27 (0) 11 914-4342
info@africanacademy.co.za
www.africanacademy.co.za

A F R I C A N
A C A D E M Y

Programme: Building Information Modelling (BIM) for Practitioners

Description

BIM is a process for the creation and use of information on Infrastructure projects such as buildings, bridges, railways or airports, etc. BIM is a relatively new subject, so this course will give you the specialist knowledge and make you more useful to the organizations already using or introducing BIM. This course is for students that have completed relevant previous engineering courses or existing employees that want to specialize in BIM.

Admission requirements

The student must have completed the African Academy Multi Discipline Drawing Office Practice course or an equivalent course from another institute. Completion of advanced courses in the engineering disciplines below would be desirable, but not essential.

The above requirements can be waived upon request and when supported by a written reference from a recognized employer confirming relevant experience and suitability to be a BIM practitioner.

Selection Procedure

Proof of the above qualifications/reference and interview to confirm suitability, aptitude and experience

Programme content

- BIM Basics – what is BIM, why is it important and how is it used?
- Understanding commonly used BIM terms/ definitions
- Physical Assets and how they are created/managed
 - Organisational requirements
 - Design
 - Construct
 - Operate/Maintain
 - Retire/refurbishment
- Required outcomes – understanding the value of BIM and Lifecycle Information Management
- BIM maturity, Standards and classification - local and International
- Employers Information Requirements (EIR)
- Work-flow and Levels of development/detail
- Discipline appreciation – to include Content creation tools and meta-data creation where applicable
 - Architectural
 - Civil Engineering/ Structural steel and concrete
 - Mechanical/HVAC
 - Electrical
 - Fabrication

- Estimation
- Scheduling and simulation
- Cost/Project Controls
- Contractual/documentation requirements
- Programme/Project Management
- Coordination, collaboration, work sharing, Remote team working
- The Common Data Environment (CDE)
- Formats and information exchange (CAD data, IFC's CoBIE, etc.)
- BIM Planning – Roles, responsibilities, execution plans, hand over
- Construction – Scheduling/simulation, change management/RFI's/Variations
- Cost control – feed back to cost/estimation
- Commissioning – as built verification/asset condition baselines
- Operations & Maintenance – faults, predictive and reactive maintenance, change control
- Portfolio/Asset management – retirement/refurbishment of Assets

Course Duration

Four months (on a part time basis)

Career Path/opportunities

- BIM Modeller
- BIM Coordinator
- BIM Manager (after required on-the-job experience)

Course Fees (R 25 000)

R10 000 deposit and the balance to be paid in 3 equal instalments. Course fees also include a laptop. Please note that annual fee increases, not in excess of 10%, may apply.

Certification

Upon completion of the course the student will be provided with access to an on-line examination portal that will issue an internationally recognised BIM certification upon successful completion.