



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Produce A Bill Of Material Working Drawings And Cost A Design Training

Physical Planning and Construction / Civil Engineering Construction

Unit Standard 120200 · NQF Level 4 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to produce accurate bill of material working drawings and cost a design effectively. Participants will learn to interpret design specifications, create detailed working drawings with bills of materials, and apply costing principles to ensure project feasibility. The training bridges technical drafting and financial planning, enabling professionals to deliver comprehensive project documentation.

Category	Physical Planning and Construction
Subfield	Civil Engineering Construction
Unit Standard	120200
Accreditation	SAQA Accredited · NQF Level 4 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply design specifications to produce accurate bill of material working drawings.
- Analyze design requirements to identify all necessary materials and components.
- Evaluate costing methods to determine the most appropriate approach for a given design.
- Implement cost estimation techniques to calculate material and labour costs.
- Demonstrate the ability to compile a complete bill of materials from working drawings.
- Assess the feasibility of a design by comparing costs against budget constraints.

WHO SHOULD ATTEND

- This course is designed for architectural technologists, drafters, design engineers, and project coordinators involved in construction or manufacturing design processes.
- It is also suitable for estimators and quantity surveyors seeking to enhance their understanding of working drawings and cost integration.

COURSE OUTLINE

Day 1: Introduction to Bill of Materials and Design Costing

- Overview of BOM types (engineering, manufacturing, service)
- Reading and interpreting working drawings
- Introduction to cost estimation methods
- Standards: SANS, ISO, and SAQA requirements
- Basic material specifications and quantities

Day 2: Developing Bill of Materials from Working Drawings

- Detailed analysis of engineering drawings
- BOM structure: indented, single-level, and multi-level
- Quantity take-off techniques
- Accounting for scrap and offcuts
- Using templates and software for BOM creation

Day 3: Costing a Design – Direct and Indirect Costs

- Direct costs: materials, labour, subcontractors
- Indirect costs: overheads, administration, utilities
- Cost allocation methods
- Pricing strategies: cost-plus, target costing
- Break-even analysis basics

Day 4: Integrating BOM and Costing for a Design Project

- Linking BOM items to cost data
- Creating a costed BOM report
- Sensitivity analysis: impact of material changes on cost
- Value engineering principles
- Preparing a cost summary for client presentation

Day 5: Practical Application, Review, and Assessment

- Hands-on project: produce BOM and cost a design
- Peer review and group discussion
- Quality checks: accuracy, completeness, traceability
- Assessment of learning outcomes
- Action plan for workplace application

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **8 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Mauritius
03 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 120200) and click **Get A Quote / Apply**. Select your training method and number of delegates – your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to apply@aaticd.co.za – our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call +27 12 004 8389 or WhatsApp +27 65 077 6310 and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically – the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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