



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

Simple and Compound Growth Decay Modelling

Physical, Mathematical, Computer and Life Sciences / Mathematical Sciences

Unit Standard 243837 · NQF Level 4 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the skills to model simple and compound growth and decay using explicit formulas and difference equations. Participants will apply these models to real-world financial and natural phenomena, enabling informed decision-making in investment, loan, and resource management contexts.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Mathematical Sciences
Unit Standard	243837
Accreditation	SAQA Accredited · NQF Level 4 · 2 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply explicit formulas to calculate simple and compound growth and decay in given scenarios.
- Analyze the differences between linear and exponential growth/decay models using difference equations.
- Evaluate the impact of varying interest rates, time periods, and compounding frequencies on investment and loan values.
- Design simple and compound growth models to solve practical problems in finance and natural sciences.
- Implement difference equations to iteratively model growth and decay processes over discrete time intervals.
- Demonstrate the ability to interpret and communicate results from growth/decay models to stakeholders.

WHO SHOULD ATTEND

- This course is designed for finance professionals, data analysts, accountants, and anyone involved in financial planning or resource management who needs to model growth and decay processes accurately.

COURSE OUTLINE

Day 1: Simple and Compound Growth Decay Modelling

- Introduction to growth and decay: linear vs exponential.
- Simple growth and decay: formula and applications.
- Compound growth and decay: formula and applications.
- Effective and nominal interest rates.
- Modelling population growth and radioactive decay.
- Using spreadsheets for growth/decay calculations.
- Interpreting graphs of growth and decay functions.
- Case studies: loans, investments, depreciation.

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 **2 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
05 Aug 2026	05 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	05 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Mauritius
11 Aug 2026	11 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Mauritius
13 Aug 2026	13 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	13 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 243837) 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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