



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

Probability Models for Event Analysis

Physical, Mathematical, Computer and Life Sciences / Mathematical Sciences

Unit Standard 243830 · NQF Level 3 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the skills to apply probability models for analyzing events in various contexts. Participants will learn to distinguish between different probability models, calculate probabilities, and interpret results to support decision-making. The course aligns with SAQA Unit Standard 243830, ensuring competence in foundational probability concepts.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Mathematical Sciences
Unit Standard	243830
Accreditation	SAQA Accredited · NQF Level 3 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Differentiate between theoretical, empirical, and subjective probability models.
- Calculate probabilities of single and combined events using appropriate models.
- Apply probability rules (addition, multiplication, complement) to solve real-world problems.
- Analyze event outcomes using contingency tables and tree diagrams.
- Evaluate the suitability of a probability model for a given scenario.
- Interpret probability results to inform decision-making in a professional context.

WHO SHOULD ATTEND

- This course is designed for professionals in fields such as risk management, quality assurance, operations, and data analysis who need to apply probability models to event analysis.
- It is also suitable for individuals seeking to enhance their quantitative reasoning skills for workplace applications.

COURSE OUTLINE

Day 1: Introduction to Probability Models for Event Analysis

- Overview of probability theory: definitions, axioms, and rules
- Types of events: independent, dependent, mutually exclusive
- Discrete probability distributions: binomial, Poisson
- Continuous probability distributions: normal, exponential
- Model selection criteria: goodness-of-fit, simplicity
- Introduction to Bayesian probability
- Case studies: event analysis in risk management and reliability
- Practical considerations: data quality and sample size

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 **4 NQF credits** at **NQF Level 3**.

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
04 Aug 2026	04 Aug 2026	On-Campus	Mauritius
05 Aug 2026	05 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	10 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Mauritius
11 Aug 2026	11 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 243830) 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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