



## 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

# South African Healthcare Sector Data Investigation

Business, Commerce and Management Studies / Finance, Economics and Accounting

Unit Standard 242575 · NQF Level 5 · 8 Credits · 5 Days

## COURSE OVERVIEW

This course equips learners with the skills to conduct a comprehensive investigation into the South African healthcare sector using published data. Participants will learn to source, analyse, and interpret relevant datasets to inform decision-making and strategic planning within the healthcare environment.

|                 |                                           |
|-----------------|-------------------------------------------|
| Category        | Business, Commerce and Management Studies |
| Subfield        | Finance, Economics and Accounting         |
| Unit Standard   | 242575                                    |
| Accreditation   | SAQA Accredited · NQF Level 5 · 8 Credits |
| Duration        | 5 days                                    |
| Training Method | Online, On-Campus, In-House               |
| Certificate     | Issued via AATICD LMS – verifiable online |

## LEARNING OUTCOMES

- Identify and access published data sources relevant to the South African healthcare sector, including government reports and health statistics.
- Analyse healthcare data using appropriate quantitative and qualitative methods to identify trends and patterns.
- Evaluate the reliability and validity of published data sources in the context of the South African healthcare system.
- Interpret findings from healthcare data investigations to draw evidence-based conclusions.
- Report on healthcare sector insights in a clear and structured manner suitable for professional stakeholders.

## WHO SHOULD ATTEND

- This course is designed for healthcare administrators, policy analysts, researchers, and data professionals who need to evaluate the South African healthcare sector using publicly available data.

## COURSE OUTLINE

### Day 1: Introduction to the South African Healthcare Sector and Data Landscape

- Overview of the South African healthcare system: public vs private sectors
- Key healthcare data sources: DHIS, NHLS, private health insurers, electronic health records
- Data types: patient demographics, clinical data, claims data, disease registries
- Regulatory environment: POPIA, National Health Act, HPCSA guidelines
- Data quality dimensions and common challenges
- Introduction to data standards: ICD-10, SNOMED CT, LOINC
- Ethical considerations in healthcare data investigation

### Day 2: Data Collection, Extraction, and Management

- Data collection methods: surveys, routine health information systems, clinical trials
- Data extraction techniques: SQL queries, API usage, manual extraction
- Data cleaning: handling missing values, duplicates, outliers
- Data management: databases, data warehouses, cloud storage
- Data security and confidentiality in healthcare
- Metadata and data dictionaries
- Practical exercise: extract and clean a sample healthcare dataset

### Day 3: Data Analysis and Interpretation for Healthcare

- Descriptive statistics: measures of central tendency, dispersion, frequency distributions
- Inferential statistics: hypothesis testing, confidence intervals, p-values
- Data visualisation: charts, graphs, dashboards
- Health indicators: mortality, morbidity, service coverage, equity
- Analysing disease prevalence and healthcare utilisation
- Case study: analysis of a provincial health dataset
- Common pitfalls in healthcare data interpretation

### Day 4: Advanced Data Investigation Techniques and Tools

- Regression analysis: linear, logistic, Cox proportional hazards
- Introduction to machine learning: classification, clustering
- Data linkage: deterministic and probabilistic matching
- Spatial analysis: mapping disease clusters, healthcare access
- Predictive modelling for disease outbreaks and resource allocation
- Impact evaluation: difference-in-differences, interrupted time series
- Practical exercise: build a predictive model for patient readmission

### Day 5: Reporting, Ethics, and Application in South African Healthcare

- Report writing: structure, clarity, evidence-based recommendations
- Data visualisation for decision-makers: executive dashboards, infographics
- Ethical reporting: avoiding misinterpretation, protecting privacy
- Stakeholder communication: clinicians, managers, policymakers
- Translating data into actionable insights
- Project planning: scoping, timeline, resources, risk management
- Final group presentation and feedback

## 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 5**.

## PRICING (PER DELEGATE, EX-VAT)

| Delegates | Training Method      | Price per Delegate | Total       |
|-----------|----------------------|--------------------|-------------|
| 1         | Online               | R 24,200.00        | R 24,200.00 |
| 1         | In-House             | R 31,400.00        | R 31,400.00 |
| 1         | On-Campus (Pretoria) | R 36,200.00        | R 36,200.00 |

## UPCOMING SESSIONS

| Start       | End         | Method    | Venue                   |
|-------------|-------------|-----------|-------------------------|
| 10 Aug 2026 | 14 Aug 2026 | On-Campus | Durban, South Africa    |
| 10 Aug 2026 | 14 Aug 2026 | On-Campus | Abu Dhabi, UAE          |
| 10 Aug 2026 | 14 Aug 2026 | On-Campus | Pretoria, South Africa  |
| 10 Aug 2026 | 14 Aug 2026 | On-Campus | Dubai, UAE              |
| 10 Aug 2026 | 14 Aug 2026 | On-Campus | Cape Town, South Africa |
| 10 Aug 2026 | 14 Aug 2026 | On-Campus | Mauritius               |
| 17 Aug 2026 | 21 Aug 2026 | On-Campus | Dubai, UAE              |
| 17 Aug 2026 | 21 Aug 2026 | On-Campus | Pretoria, 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](http://www.aaticd.co.za), open the page for this course (Unit Standard 242575) 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](mailto: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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