



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

Polygraphy Origins and Applications Research

Law, Military Science and Security / Safety in Society

Unit Standard 252165 · NQF Level 5 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to research the origins, development, and application of polygraphy (lie detection) within forensic and investigative contexts. Participants will critically evaluate historical and modern polygraph techniques, ethical considerations, and the validity of polygraph evidence in South African and international settings.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	252165
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Analyze the historical development of polygraphy from early instruments to modern computerized systems.
- Evaluate the physiological and psychological principles underlying polygraph testing.
- Apply research methodologies to investigate the validity and reliability of polygraph results.
- Critically assess the legal and ethical implications of polygraph use in South Africa.
- Demonstrate the ability to differentiate between various polygraph techniques (e.g., CQT, POT, R/I).
- Synthesize findings from polygraph research to recommend best practices for its application.

WHO SHOULD ATTEND

- This course is designed for forensic investigators, security personnel, law enforcement officers, legal professionals, and HR managers who require a foundational understanding of polygraphy for professional or academic purposes.

COURSE OUTLINE

Day 1: Historical Foundations of Polygraphy

- Ancient lie detection methods.
- The work of Lombroso, Larson, and Keeler.
- Development of the modern polygraph.
- Early controversies and legal challenges.
- Evolution of physiological measurements.
- Historical case studies.
- Ethical considerations in early polygraphy.

Day 2: Physiological Principles and Measurement

- Overview of the autonomic nervous system.
- Cardiovascular, respiratory, and electrodermal activity.
- Sensor types and placement.
- Signal processing and artifact detection.
- Calibration and quality assurance.
- Physiological responses to deception.
- Limitations and confounding factors.

Day 3: Testing Techniques and Question Formulation

- Comparison Question Test (CQT) methodology.
- Concealed Information Test (CIT) methodology.
- Question types: relevant, comparison, irrelevant.
- Formulating and sequencing questions.
- Pre-test interview procedures.
- Technique selection criteria.
- Ethical considerations in question design.

Day 4: Data Analysis and Chart Interpretation

- Chart reading fundamentals.
- Numerical scoring systems (e.g., 7-position scale).
- Identifying artifacts and countermeasures.
- Computerized scoring algorithms.
- Inter-rater reliability.
- Reporting and documentation standards.
- Common interpretation errors.

Day 5: Legal and Ethical Frameworks

- Admissibility in South African courts.
- International legal perspectives.
- Professional codes of conduct (e.g., SAQA, APA).
- Informed consent and examinee rights.
- Ethical issues in pre-employment screening.
- Confidentiality and data protection.
- Case law and precedents.

Day 6: Research Methods and Current Applications

- Meta-analyses and systematic reviews.
- Field vs. laboratory research.
- Countermeasures research.
- Applications in forensic investigations.
- National security and intelligence use.
- Pre-employment screening practices.
- Controversies and public perception.
- Future trends in polygraphy.

Day 7: Practical Integration and Professional Practice

- Case study analysis and group discussion.
- Mock test planning and question formulation.
- Chart interpretation exercises.
- Ethical decision-making scenarios.
- Developing a quality assurance program.
- Career pathways and professional development.
- Course review and assessment.

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 29,600.00	R 29,600.00
1	In-House	R 38,500.00	R 38,500.00
1	On-Campus (Pretoria)	R 44,400.00	R 44,400.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	20 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	20 Aug 2026	On-Campus	Mauritius
13 Aug 2026	21 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	24 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	25 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	26 Aug 2026	On-Campus	Durban, 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 252165) 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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