



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

Apply System Engineering Processes To An Acquisition Programme Life Cycle Training

Business, Commerce and Management Studies / Procurement

Unit Standard 119853 · NQF Level 5 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to apply system engineering processes within the lifecycle of an acquisition programme. It covers the integration of technical and management processes to ensure successful system development and delivery. Participants will gain a comprehensive understanding of how to manage system requirements, design, verification, and validation in a structured acquisition context.

Category	Business, Commerce and Management Studies
Subfield	Procurement
Unit Standard	119853
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

- Apply system engineering processes to the phases of an acquisition programme lifecycle.
- Analyze system requirements and translate them into a structured system design.
- Evaluate system design alternatives using trade-off analyses and risk management.
- Implement verification and validation processes to ensure system compliance.
- Demonstrate the integration of technical reviews and audits within the acquisition lifecycle.
- Apply configuration management and change control processes to maintain system integrity.

WHO SHOULD ATTEND

- This course is designed for project managers, systems engineers, and procurement professionals involved in acquisition programmes within the defence, aerospace, or complex systems industries.
- It is also suitable for individuals seeking to enhance their understanding of system engineering principles in an acquisition environment.

COURSE OUTLINE

Day 1: Introduction to Systems Engineering and the Acquisition Lifecycle

- Overview of systems engineering principles
- The acquisition lifecycle: concept, development, production, operation, disposal
- Stakeholder identification and engagement
- Systems thinking and holistic approach
- Introduction to relevant SAQA and international standards

Day 2: Systems Engineering Processes – Requirements and Architecture

- Stakeholder needs and requirements definition
- Functional and performance requirements
- Requirements verification and validation
- System architecture frameworks (e.g., DoDAF, MODAF)
- Trade-off analysis and design decisions

Day 3: Integration, Verification, and Validation

- Integration strategy and sequencing
- Verification methods: inspection, analysis, demonstration, test
- Validation techniques and user acceptance
- Configuration management processes
- Change control boards and impact analysis

Day 4: Risk Management and Lifecycle Support

- Risk management process: identification, analysis, mitigation, monitoring
- Technical performance measures and metrics
- Lifecycle cost analysis
- Supportability analysis and logistics
- Obsolescence management

Day 5: Practical Application and Integration of Systems Engineering

- Case study: acquisition programme from concept to disposal
- Group exercise: developing a systems engineering management plan
- Peer review and feedback sessions
- Lessons learned and best practices
- Assessment and course wrap-up

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 17,700.00	R 17,700.00
1	In-House	R 23,100.00	R 23,100.00
1	On-Campus (Pretoria)	R 26,700.00	R 26,700.00

UPCOMING SESSIONS

Start	End	Method	Venue
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Harare, Zimbabwe
24 Aug 2026	28 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Durban, South Africa
24 Aug 2026	28 Aug 2026	On-Campus	Abu Dhabi, UAE
31 Aug 2026	04 Sep 2026	On-Campus	Shenzhen, China
31 Aug 2026	04 Sep 2026	On-Campus	Harare, Zimbabwe

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 119853) 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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