



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

Livestock And Game Pen Layout Planning And Design Training

Business, Commerce and Management Studies / Marketing

Unit Standard 117021 · NQF Level 5 · 12 Credits · 9 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to plan, design, and lay out livestock and game pens that meet animal welfare, safety, and operational efficiency standards. It covers key principles of pen layout, handling systems, and design considerations for various livestock and game species.

Category	Business, Commerce and Management Studies
Subfield	Marketing
Unit Standard	117021
Accreditation	SAQA Accredited · NQF Level 5 · 12 Credits
Duration	9 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of animal behaviour and welfare to pen layout planning.
- Design pen layouts that ensure safe and efficient handling of livestock and game.
- Evaluate existing pen layouts and recommend improvements.
- Demonstrate compliance with relevant health, safety, and environmental regulations.
- Analyze site-specific factors influencing pen design, including terrain and climate.
- Implement biosecurity measures in pen layout and design.

WHO SHOULD ATTEND

- This course is designed for farm managers, game ranch operators, livestock handlers, and anyone involved in the planning and design of animal handling facilities.

COURSE OUTLINE

Day 1: Introduction to Livestock and Game Penning Principles

- Course overview and unit standard 117021 requirements
- Introduction to the livestock and game industries in South Africa
- Basic principles of animal behaviour and handling
- Overview of relevant legislation (e.g., Animal Protection Act, NEMA)
- Key stakeholders: farmers, veterinarians, conservationists
- Site selection fundamentals

Day 2: Animal Behaviour and Handling Requirements

- Cattle, sheep, goat, and pig behaviour patterns
- Game species behaviour (e.g., antelope, buffalo)
- Flight zones and point of balance concepts
- Handling facility requirements for different species
- Social hierarchy and its impact on pen grouping
- Designing for animal flow and movement

Day 3: Site Assessment and Environmental Considerations

- Topographical survey and soil analysis techniques
- Water source assessment and management
- Drainage system planning
- Vegetation management and shade provision
- Biosecurity zones and perimeter control
- Environmental legislation compliance

Day 4: Structural Components and Materials

- Fencing types: electric, wire, palisade, game fencing
- Gate design and placement principles
- Loading ramp and crush pen specifications
- Shelter and shade structure requirements
- Watering and feeding system integration
- Material selection for different climates and terrains

Day 5: Basic Pen Layout Design Principles

- Pen sizing calculations based on animal units
- Alleyway and race design for optimal flow
- Holding pen and sorting yard layout
- Integration of handling facilities (crush, dip, scale)
- Separation areas for sick or special-needs animals
- Basic drafting and scaling techniques

Day 6: Advanced Layout Planning for Specific Applications

- Breeding pen design considerations
- Feedlot layout and bunk management
- Quarantine and isolation facility planning
- Multi-species operation integration
- Veterinary treatment area design

- Labour efficiency and safety considerations

Day 7: Water and Feed Management Systems

- Water requirement calculations per animal unit
- Trough placement and design
- Feed storage facility planning
- Automated feeding system considerations
- Manure management and composting area design
- Integration with overall pen layout

Day 8: Practical Design Project and Software Applications

- Hands-on design project: complete pen layout
- Introduction to CAD or basic design software
- Specification writing for contractors
- Cost estimation and budgeting
- Presentation techniques for design proposals
- Peer review and feedback session

Day 9: Implementation, Maintenance, and Assessment

- Construction supervision and quality control
- Maintenance scheduling for fences, gates, and equipment
- Risk assessment methodology
- Record keeping and documentation requirements
- Final assessment preparation
- Course review and certification process

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 **12 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 35,000.00	R 35,000.00
1	In-House	R 45,500.00	R 45,500.00
1	On-Campus (Pretoria)	R 52,500.00	R 52,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
11 Aug 2026	21 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	24 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	24 Aug 2026	On-Campus	Mauritius
13 Aug 2026	25 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	26 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	27 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	28 Aug 2026	On-Campus	Durban, South Africa
19 Aug 2026	31 Aug 2026	On-Campus	Shenzhen, China

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 117021) 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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