



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

Macadamia Orchard Irrigation Techniques And Management Training

Agriculture and Nature Conservation / Secondary Agriculture

Unit Standard 115825 · NQF Level 1 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips macadamia orchard managers and irrigation technicians with advanced techniques for designing, implementing, and managing efficient irrigation systems. Participants will learn to optimize water use, monitor soil moisture, and integrate irrigation with orchard management practices to enhance nut yield and quality.

Category	Agriculture and Nature Conservation
Subfield	Secondary Agriculture
Unit Standard	115825
Accreditation	SAQA Accredited · NQF Level 1 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply irrigation scheduling principles based on crop water requirements and soil moisture data.
- Analyze soil and water quality parameters to determine appropriate irrigation methods and system design.
- Evaluate the performance of drip, micro-sprinkler, and other irrigation systems in macadamia orchards.
- Design a irrigation management plan that integrates fertigation and pest/disease control strategies.
- Implement water conservation techniques, including rainwater harvesting and irrigation scheduling.
- Demonstrate the ability to troubleshoot common irrigation system malfunctions and perform maintenance.

WHO SHOULD ATTEND

- Macadamia orchard managers, irrigation technicians, and farm supervisors responsible for irrigation planning and execution in commercial orchards.

COURSE OUTLINE

Day 1: Macadamia Orchard Irrigation Techniques and Management

- Introduction to macadamia water requirements and critical growth stages
- Types of irrigation systems: micro-sprinklers, drip irrigation, and flood irrigation
- Soil water holding capacity, infiltration rates, and root zone depth
- Soil moisture monitoring methods: tensiometers, capacitance probes, and neutron probes
- Irrigation scheduling based on evapotranspiration (ET) and crop coefficients
- Water quality parameters: salinity, pH, and potential clogging issues
- Practical demonstration: setting up and calibrating irrigation equipment
- Developing an irrigation management plan: record keeping and adjustments

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 **3 NQF credits** at **NQF Level 1**.

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
10 Aug 2026	10 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Mauritius
13 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	17 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	18 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 115825) 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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