

AI for NGO, Government and Business

AI for Agriculture, Food Security and Rural Development

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE

MSDI

DELIVERY

Online / Face-to-Face

DURATION

Flexible

PREPARED FOR

Organisation Approval

[Register for this Course](#)

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Course Overview

AI is creating new opportunities in agriculture, climate adaptation, food security monitoring and rural development. It can support better planning, early warning, crop monitoring and evidence-based decisions.

This Magna Skills course introduces practical AI applications for smart farming, crop forecasting, climate analysis, land use, programme monitoring and rural development interventions.

The programme is ideal for professionals working in agriculture, food security, public sector planning and development projects who want to apply data-driven approaches in their work.

Course Outcomes

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1. Understand practical AI applications in agriculture, food security and rural development.
2. Use AI-supported insights for crop trends, climate risks and food security monitoring.
3. Improve agricultural project planning, reporting, extension communication and decision-making.
4. Apply AI tools to support land use, resource planning and rural livelihood programmes.
5. Promote responsible AI adoption that considers data quality, local context and inclusion.

Course Outline / Curriculum

Course Outline

Module 1: AI in agriculture and food security

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 2: Smart agriculture and digital advisory services

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 3: Crop monitoring and production forecasting concepts

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 4: Climate data and climate-smart agriculture

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 5: Food security indicators and early warning support

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 6: Rural development planning and livelihood programmes

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 7: AI for agricultural project monitoring and reporting

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 8: Extension communication and farmer advisory content

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 9: Data quality, ethics and local context

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Module 10: Developing AI agriculture programme templates

- Key concepts, practical examples and sector-based discussion.
- Workplace application activity, templates and implementation considerations.

Target Audience

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Agriculture officers, food security specialists, rural development teams, NGOs, planners, government officials, climate programme teams, development project staff, extension officers, land officers, donor funded project teams and agricultural policy professionals.

Key Course Benefits

Work-Ready Skills

Delegates leave with practical tools, templates and methods they can apply immediately at work.

Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

Sponsor-Friendly

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

Professional Recognition

Delegates receive training documentation and a certificate of completion after successful participation.

Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

Southern Africa

Practical training destinations with strong travel access and delegate support.

Pretoria, South Africa

Vic Falls, Zimbabwe

Livingstone, Zambia

East Africa

Popular regional centres for government, NGO and donor-funded project teams.

Kigali, Rwanda

Kampala, Uganda

Nairobi,

Zanzibar, Tanzania

West Africa & Islands

Strategic locations for regional networking and executive capacity building.

Accra, Ghana

Port Louis, Mauritius

International Executive Venue

Premium destination training for senior teams and international delegates.

Dubai, United Arab Emirates

Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

Online, E-Learning

Remote Teams

Flex

Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

Onsite

Custom Dates

Group Training

Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training support.

[Register / Apply Online](#)

[View Full Course Page](#)

About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training

NGO Capacity Building

Corporate Workshops

Online Learning

Face-to-Face Training

Certifica

Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

Organisation / Department	
Delegate Name(s)	
Approved Course	AI for Agriculture, Food Security and Rural Development
Preferred Delivery Mode	<input type="checkbox"/> Online <input type="checkbox"/> Face-to-Face <input type="checkbox"/> Organisation-Based Training
Preferred Training Venue / Date	
Estimated Number of Delegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name

Signature / Stamp

Date