MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

Generated: 05-Nov-2026

Course Profile Document

Land, Agriculture and Food Sciences

Animal Production and Health Nutrition

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

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2507	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

Magna Skills is pleased to offer the Animal Production and Health Nutrition course, designed for professionals and stakeholders in the agriculture and livestock sectors who seek to enhance their knowledge and skills in animal nutrition and health management. This course provides comprehensive training in the principles of animal nutrition, feed formulation, health management, and disease prevention strategies to optimize animal production and welfare.

Course Outcomes

Upon completion of the course, participants will:

1. **Understand Animal Nutrition Requirements:**
   - Gain insights into the nutritional requirements of various livestock species.
   - Learn about the essential nutrients, feed sources, and dietary needs for optimal animal health and production.
2. **Master Feed Formulation Techniques:**
   - Learn feed formulation principles and techniques for different stages of animal growth and production.
   - Understand the role of feed additives and supplements in enhancing animal performance and health.
3.

Implement Health Management Practices:

- Develop skills in disease prevention, vaccination, and biosecurity measures in animal production systems.
- Learn about common livestock diseases, their symptoms, and preventive measures.

4. **Optimize Reproduction and Breeding Programs:**
   - Understand reproductive physiology and management practices to improve breeding efficiency in livestock.
   - Learn about artificial insemination techniques, estrus synchronization, and reproductive health monitoring.
5. **Enhance Animal Welfare and Husbandry Practices:**
   - Gain knowledge of animal welfare principles and ethical considerations in livestock production.
   - Learn best practices in animal husbandry, housing, and handling to ensure the welfare and well-being of animals.

Course Outline / Curriculum

Module 1: Principles of Animal Nutrition

- Nutritional requirements of livestock species
- Essential nutrients and their functions in animal diets

Module 2: Feed Formulation and Ration Balancing

- Feed ingredients and their nutritional composition
- Formulating balanced diets for different livestock categories

Module 3: Feed Additives and Supplements

- Role of feed additives in animal nutrition
- Use of supplements for improving animal performance and health

Module 4: Animal Health Management

- Common livestock diseases and their prevention
- Vaccination programs and disease control strategies

Module 5: Reproductive Physiology and Management

- Reproductive anatomy and physiology of livestock
- Breeding programs and reproductive health monitoring

Module 6: Artificial Insemination and Estrus Synchronization

- Techniques and protocols for artificial insemination
- Estrus synchronization methods for improved breeding efficiency

Module 7: Disease Prevention and Biosecurity

- Biosecurity measures for disease prevention
- Management practices to minimize disease transmission

Module 8: Animal Welfare and Husbandry Practices

- Principles of animal welfare and ethical considerations
- Best practices in animal housing, handling, and transportation

Module 9: Nutrition and Health Considerations for Special Livestock - Nutrition and health considerations for specific livestock species (e.g., poultry, dairy, swine) - Tailoring nutrition and health management practices to meet the needs of specialized livestock

Module 10: Case Studies and Best Practices - Analysis of real-world case studies in animal production and health nutrition - Best practices and lessons learned in optimizing animal production and welfare

This course is suitable for veterinarians, animal scientists, livestock producers, extension officers, and professionals involved in animal production and health management. Through a blend of theoretical knowledge, practical demonstrations, and case studies, participants will gain the skills and expertise needed to improve animal nutrition,

health, and welfare, leading to enhanced productivity and sustainability in livestock production systems

Target Audience

It will benefit agricultural sales and adminstration staff, agricultural research, extension, quality control, production and marketing. These are applicable in a wide variety of farming, research, agricultural input and marketing industries. Course also applies to those wishing to gain knowledge of the agricultural livestock industry

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 arrangededicated in-house training forministries, 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	Animal Production and Health Nutrition
Preferred Delivery Mode	☐ Online ☐ Face-to-Face ☐ Organisation-Based Training
Preferred Training Venue / Date	
Estimated Number of Delegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name _____ Signature / Stamp _____ Date _____