



Sustainable Livestock Production

11 - 15 Oct 2026
Sharm El-Sheikh (Egypt)



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Ref.: 16418_1019860 **Date:** 11 - 15 Oct 2026 **Location:** Sharm El-Sheikh (Egypt) **Fees:** 5500 Euro

Introduction:

The Sustainable Livestock Production course equips learners with a rigorous understanding of how to raise farm animals in ways that balance ecological, economic, and social goals. The course explores strategies to reduce greenhouse gas emissions, enhance animal welfare, and optimize resource efficiency across feed, water, and land systems. Learners will investigate climate-smart livestock practices, precision monitoring, regenerative grazing, and integrated systems.

We also examine policy, certification systems, and market drivers that influence sustainable animal farming. Case analyses will illustrate real-world challenges and solutions in various agroecological zones. By the end of this Sustainable Livestock Production program, participants will be able to design or audit livestock systems that deliver productivity with minimal environmental impact.

Targeted Groups:

This Sustainable Livestock Production training targets professionals seeking specialized knowledge and skills:

- Livestock farm managers and operators interested in sustainability.
- Animal health advisors and veterinarians are working with production farms.
- Agronomists and extension agents support farmers.
- Policy makers and government officials in agricultural departments.
- Sustainability officers in agribusiness and food supply chains.
- Consultants in climate-smart agriculture and rural development.

Course Objectives:

Participants will achieve the following objectives by completing the Sustainable Livestock Production course:

- Understand core principles of sustainable livestock systems and articulate trade-offs among economic, ecological, and social goals.
- Analyze carbon footprints, nutrient cycles, and greenhouse gas mitigation options for different livestock species.
- Design rotational or regenerative grazing plans tailored to pasture types and climate constraints.
- Apply precision livestock monitoring tools to track animal welfare, feed efficiency, and health metrics.
- Evaluate manure management, waste valorization, and circular nutrient reuse strategies.
- Critically assess certification, regulation, and market incentives for sustainable animal products.
- Develop a comprehensive action plan to transition a conventional livestock operation toward achieving sustainability goals.
- Communicate sustainability metrics and improvements to stakeholders, investors, or regulatory bodies.

Targeted Competencies:

Participants will gain the following competencies during the Sustainable Livestock Production program:

- Ability to evaluate environmental impacts GHG, water, land of livestock systems.
- Skill to design grazing rotations, integrate agroforestry, and optimize forage production.
- Proficiency in interpreting sensor data and precision livestock farming metrics.
- Capability in planning nutrient recycling, manure treatment, and biogas integration.
- Aptitude to assess and propose sustainable feed formulation and alternative feed sources.
- Facility in navigating sustainability certification schemes and regulatory frameworks.
- Competence in stakeholder communication and reporting sustainability indicators.
- Confidence to convert conventional operations to climate-resilient and low-impact systems.

Studying Scenarios:

In this Sustainable Livestock Production training, participants will develop their skills through the analysis of the following scenarios:

- Mid-scale dairy farm transitioning to rotational grazing and reducing methane emissions.
- A beef ranch in a semi-arid region integrates silvopasture to boost carbon sequestration.
- Small ruminant goat/sheep operation optimizing feed resources and manure reuse.
- A poultry producer is adapting precision monitoring to improve welfare and feed conversion.
- Mixed crop-livestock farm planning integrated manure-crop nutrient loops and grazing.

Course Content:

Unit 1: Foundations of Sustainable Livestock Systems:

- Principles of sustainable livestock and agroecology.
- Triple bottom line: environmental, social, economic dimensions.
- Role of Livestock in Food Systems and Rural Livelihoods.
- Metrics: carbon footprint, life-cycle assessment, resource efficiency.
- Challenges: climate change, land degradation, and water scarcity.
- Case comparisons of livestock systems across climates.

Unit 2: Animal Welfare, Health, and Productivity:

- Standards of welfare and humane handling in production systems.
- Disease prevention, health monitoring, and biosecurity.
- Genetics, breeding, and resilience traits for sustainability.
- Feed efficiency and conversion ratio optimization.
- Stress management and behavioral indicators in animals.
- Precision livestock monitoring and sensor technologies.
- Predictive analytics in health and productivity.

Unit 3: Forage, Grazing, and Pasture Management:

- Pasture ecology, soil health, and species composition.
- Rotational grazing, adaptive grazing, and rest periods.
- Silvopastoral systems and agroforestry integration.
- Forage establishment, seasonal planning, and reseeding.
- Grazing management to avoid overgrazing and erosion.
- Nutrient cycling between plants, soil, and animals.
- Integrating cover crops and mixed species grazing.

Unit 4: Feed, Nutrition, and Alternative Feed Sources:

- Balanced ration formulation and feed resource assessment.
- Use of crop residues, by-products, and nonconventional feeds.
- Feed additives, supplements, and mitigation of enteric methane.
- Digestibility, nutrient bioavailability, and feed efficiency.
- Circular feed loops and local sourcing strategies.
- Economic analysis of feed options and substitution.
- Risk and safety toxins, anti-nutritional factors.

Unit 5: Waste Management, Nutrient Recycling, and Business Strategies:

- Manure handling, composting, and anaerobic digestion.
- Nutrient recovery, biofertilizer production, and value streams.
- Integration with cropping systems and soil amendment.
- Water reuse, runoff control, and pollution prevention.
- Market structures, certification, and consumer demand.
- Transition planning, investment, and business modeling.
- Monitoring, reporting, and continuous improvement.

Final Insights & Key Takeaways:

Participants will leave with a robust framework for designing and evaluating sustainable livestock operations adapted to local contexts. They will translate theory into actionable plans, bridging sustainable livestock production and real-world farm systems.



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**Registration form on the :
Sustainable Livestock Production**

code: 16418 **From:** 11 - 15 Oct 2026 **Venue:** Sharm El-Sheikh (Egypt) **Fees:** 5500 **Euro**

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