

Sustainable Production & Livestock

COURSE OVERVIEW

The global demand for animal protein continues to rise, and efficient, ethical, and traceable livestock management practices are critical to maintaining food security and ensuring environmental sustainability. This course provides an understanding of sustainable livestock production systems integrated with technology and data-driven approaches. The curriculum explores how digital transformation through IoT sensors, AI-driven monitoring, precision feeding, genetic traceability, and blockchain certification is reshaping livestock management across production. Participants will gain insights into sustainable grazing systems, feed optimization, animal health management, carbon footprint reduction, and compliance with global export standards.

WHO SHOULD ATTEND?

This course is designed for livestock and agribusiness professionals, exporters, supply chain managers, agricultural policymakers, regulatory officers and veterinary animal science professionals. It is equally valuable for investors, entrepreneurs, NGOs, development partners and sustainability consultants seeking to integrate sustainability and technology into production.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Analyze the relationship between sustainable livestock practices and global food security.
- Implement digital monitoring systems for animal health, feeding, and productivity tracking.
- Develop sustainable grazing and feed management strategies to reduce carbon emissions.
- Apply data analytics to improve livestock productivity and profitability.
- Integrate animal welfare and biosecurity measures in production systems.
- Design and manage value-added livestock export processes.
- Align livestock operations with global sustainability and ESG frameworks.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The use of AI, IoT, and drone technologies for precision livestock management.
- Digital traceability systems and blockchain applications in export documentation.
- Methods for reducing methane emissions and optimizing feed conversion efficiency.
- Approaches to animal health surveillance and early disease detection using technology.
- International export market access requirements, certifications, and compliance frameworks.
- The integration of renewable energy in livestock production for carbon neutrality.
- Financial instruments and insurance models for mitigating livestock production risks.
- The intersection of data-driven livestock management with sustainable business growth and policy reform.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate.
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded.