Training Course on Sustainable Packaging Solutions for Agri-Food Products

Professional Development Training Course Outline

Category	Agriculture	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s environmentally conscious market, sustainable packaging solutions are not just a trend but a necessity—especially for the agri-food industry. With increasing concerns about plastic pollution, carbon emissions, and food waste, agri-businesses must embrace eco-friendly, biodegradable, and innovative packaging technologies. Training Course on Sustainable Packaging Solutions for Agri-Food Products is designed to equip industry professionals, agribusiness stakeholders, and packaging developers with the tools and knowledge to transition towards sustainable packaging systems that enhance shelf-life, maintain product integrity, and meet global sustainability standards.

Participants will gain insights into bio-based materials, circular economy principles, smart packaging technologies, and regulatory compliance. Through interactive modules and real-world case studies, the course delivers practical strategies for reducing environmental impacts while increasing market competitiveness and consumer trust. Whether you're a farmer, food processor, exporter, or sustainability officer, this course will help you align your packaging practices with the future of green innovation in the food value chain.

Programme Curriculum

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Course Objectives

1. Understand the fundamentals of sustainable packaging for agri-food systems.
2. Explore the environmental impact of conventional packaging in food supply chains.
3. Identify various biodegradable, compostable, and bio-based packaging materials.
4. Assess smart and active packaging technologies that enhance food safety and shelf life.
5. Examine the role of circular economy models in reducing packaging waste.
6. Analyze life cycle assessments (LCA) of packaging solutions.
7. Learn about government regulations and eco-labeling compliance.
8. Explore zero-waste packaging innovations in agri-food export markets.
9. Implement cost-effective sustainable packaging strategies for smallholder farmers.
10. Integrate digital tools and traceability systems into packaging solutions.
11. Develop consumer-centric packaging designs that boost brand value.
12. Enhance knowledge of green supply chain management practices.
13. Apply sustainability principles through real-world case studies and practical packaging audits.

Target Audience

1. Agri-food exporters
2. Food processors and manufacturers
3. Agribusiness entrepreneurs
4. Packaging material suppliers
5. Environmental and sustainability officers
6. Agricultural cooperatives and farmer groups
7. Government regulators and policy makers
8. NGOs and development practitioners in food systems

Course Duration: 5 days

Course Modules

Module 1: Introduction to Sustainable Packaging

- Key concepts and terminology
- Current challenges in food packaging
- Global trends and regulations
- Introduction to eco-friendly materials
- Benefits of sustainable solutions
- *Case Study: Transitioning from plastic to biopackaging in fresh produce*

Module 2: Bio-Based and Compostable Materials

- Types of bio-based packaging
- Compostability and decomposition timelines
- Cost and accessibility
- Material safety and food compatibility
- Sourcing and local availability
- *Case Study: Use of banana leaves in East African agri-food packaging*

Module 3: Smart and Active Packaging Technologies

- Sensors for freshness and temperature
- Oxygen scavengers and antimicrobials
- Nanotechnology in packaging
- Blockchain and QR code integration
- Enhancing shelf life and traceability
- *Case Study: Active packaging to reduce spoilage in dairy exports*

Module 4: Circular Economy and Waste Reduction

- Principles of circular packaging
- Designing for reuse and recyclability
- Returnable packaging systems
- Packaging audits and waste tracking
- Community-based recycling models
- *Case Study: Closed-loop packaging system in urban farming cooperatives*

Module 5: Regulatory Frameworks and Standards

- Overview of global and local standards
- Labeling and certifications (e.g., ISO, EU Green Deal)
- Compliance documentation and reporting
- Penalties and risks of non-compliance
- Encouraging voluntary sustainability programs
- *Case Study: EU organic labeling compliance for export mangoes*

Module 6: Design Thinking in Packaging

- User-centered design approach
- Branding and sustainable storytelling
- Ergonomics and functionality
- Visual impact and transparency
- Testing prototypes and market feedback
- *Case Study: Rebranding honey packaging for local and export markets*

Module 7: Cost-Benefit Analysis and Implementation

- Calculating ROI of sustainable packaging
- Funding and support for SMEs
- Economies of scale in packaging production
- Low-cost alternatives for smallholders
- Building partnerships with green suppliers
- *Case Study: Financial savings after adopting biodegradable sacks in grains*

Module 8: Case-Based Packaging Audits

- Conducting real-time packaging assessments
- Identifying hotspots for sustainability
- Engaging stakeholders in change
- Data collection and impact reporting
- Continuous improvement and feedback loops
- *Case Study: Packaging audit for a tomato export cooperative in Kenya*

Training Methodology

- Interactive expert-led presentations

- Group discussions and breakout sessions
- Hands-on demonstrations and prototypes
- Case study analysis and peer review
- Field-based packaging audits and assessments
- Digital tools and simulation exercises

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com