MERCURY

Food Security & Sustainable Agriculture

17 – 21 May 2027
Rome (Italy)



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Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

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Food Security & Sustainable Agriculture

Ref: 16399_1019099 **Date:** 17 – 21 May 2027 **Location:** Rome (Italy) **Fees:** 7200 Euro

Introduction:

The Food Security and Sustainable Agriculture course offers an in-depth exploration of the intricate relationship between agricultural practices and global food security. It delves into sustainable farming techniques, policy frameworks, and the socio-economic factors influencing food systems. Participants will examine the impact of climate change, resource depletion, and urbanization on food production and distribution.

The Food Security and Sustainable Agriculture program emphasizes the importance of integrating ecological principles with agricultural practices to ensure long-term food availability. Through case studies and real-world scenarios, learners will develop strategies to enhance food security in diverse contexts. Participants will contribute effectively to sustainable agricultural development and food security initiatives.

Targeted Groups:

This Food Security and Sustainable Agriculture training targets professionals seeking specialized knowledge and skills:

- Agricultural policymakers are aiming to design effective food security strategies.
- Sustainable farming practitioners are interested in enhancing their agricultural practices.
- Development professionals working on food security and rural development projects.
- Environmental consultants focusing on sustainable land use and resource management.
- Researchers and academics studying agricultural sustainability and food systems.
- NGO staff involved in food aid and community development initiatives.
- Urban planners addressing food security in metropolitan areas.
- Students pursuing careers in sustainable agriculture and food policy.

Course Objectives:

Participants will achieve the following objectives by completing the Food Security and Sustainable Agriculture course:

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- Define key concepts related to food security and sustainable agriculture.
- Analyze the factors affecting global food systems, including environmental, economic, and social dimensions.
- Evaluate the impact of climate change on agricultural productivity and food availability.
- Identify sustainable farming practices that enhance food security.
- Develop strategies for integrating sustainability into agrarian policies.
- Assess the role of technology and innovation in promoting sustainable agriculture.
- Design community-based initiatives to improve local food systems.
- Critically examine case studies of successful sustainable agriculture projects.
- Communicate effectively about food security issues to diverse audiences.
- Collaborate with stakeholders to implement sustainable agricultural solutions.

Targeted Competencies:

Participants will gain the following competencies during the Food Security and Sustainable Agriculture program:

- Comprehensive understanding of food security challenges and sustainable agricultural solutions.
- Ability to analyze and interpret data related to food systems and agriculture.
- Skills in developing and implementing sustainable agricultural practices.
- Proficiency in designing policies that promote food security and sustainability.
- Competence in evaluating the environmental impact of agricultural activities.
- Capability to engage with communities and stakeholders in food security initiatives.
- Expertise in utilizing technology and innovation to enhance food systems.
- Aptitude for conducting research and contributing to knowledge in the field.
- Effective communication skills for advocacy and policy development.
- Leadership qualities to drive change in the agricultural and food security sectors.

Studying Scenarios:

In this Food Security and Sustainable Agriculture training, participants will develop their skills through the analysis of the following scenarios:

- Implementing sustainable farming practices in arid regions to combat food insecurity.
- Designing urban agriculture projects to improve food access in metropolitan areas.
- Developing policies to support smallholder farmers in adapting to climate change.
- Evaluating the effectiveness of food aid programs in disaster-stricken regions.
- Assessing the impact of agricultural subsidies on food security and sustainability.
- Creating community-based initiatives to promote local food systems.
- Integrating indigenous knowledge into modern agricultural practices for sustainability.
- Utilizing technology to enhance food distribution and reduce waste.

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Course Content:

Unit 1: Introduction to Food Security and Sustainable Agriculture:

- Definition and dimensions of food security.
- Historical overview of agricultural practices.
- Principles of sustainable agriculture.
- Global challenges affecting food systems.
- The role of policy in food security.
- Introduction to sustainable farming techniques.
- Case studies of successful food security initiatives.
- Overview of international organizations and their role in food security.

Unit 2: Environmental Factors Influencing Agriculture:

- Impact of climate change on agriculture.
- Soil health and its importance in food production.
- Water management in sustainable agriculture.
- Biodiversity and its role in agricultural systems.
- Pollution and its effects on food systems.
- Sustainable land use practices.
- Agroecology and its applications.
- Conservation agriculture techniques.

Unit 3: Socio-Economic Dimensions of Food Security:

- Economic factors affecting food production and distribution.
- Social determinants of food access.
- Gender and food security.
- Rural development and its impact on food systems.
- Global trade and food security.
- Food sovereignty and its implications.
- Role of Education in Promoting Food Security.
- Community engagement in food security initiatives.

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Unit 4: Technological Innovations in Agriculture:

- Advancements in agricultural biotechnology.
- Precision agriculture and its benefits.
- Use of information technology in agriculture.
- Renewable energy sources in farming.
- Automation and robotics in agriculture.
- Smart irrigation systems.
- Role of data analytics in agriculture.
- Challenges and opportunities of technological adoption.

Unit 5: Policy and Governance for Food Security:

- National and international food security policies.
- Role of government in agricultural development.
- Public-private partnerships in food security.
- Regulations and standards in agriculture.
- Monitoring and Evaluation of Food Security Programs.
- Advocacy and lobbying for food security issues.
- Ethical considerations in food policy.
- Future trends in food security governance.

Final Insights & Key Takeaways:

This course equips participants with an understanding of the multifaceted issues surrounding food security and sustainable agriculture. Learners will implement strategies that promote sustainable food systems and contribute to global food security efforts.