

# Climate-Smart Agriculture and Resilient Production Training Course

14 – 18 June 2027
Dubai

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Training Center

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**Ref:** 2195_260578 **Date:** 14 – 18 June 2027 **Location:** Dubai **Fees:** 4500 Euro

## Overview

Climate-Smart Agriculture and Resilient Production Training Course is a one-week professional course for agricultural managers, agronomists, production leaders, extension professionals, and sustainability teams, who leave with a Climate-Smart Production and Resilience Plan. The course connects agricultural climate risk, climate services, crop and livestock adaptation, soil and water resilience, and low-emission agriculture. Agile Leaders Training Center develops climate-smart agriculture practice.

## Who Should Attend

- People responsible for farm and food-production planning
- Teams responsible for crop, livestock, soil, and water decisions
- Functions responsible for agricultural climate risk and sustainability
- People responsible for extension services and producer support
- Public-sector teams responsible for agricultural resilience initiatives

The course assumes participants work with agricultural production data and operating plans; it leaves out generic climate policy, emergency response, and broad food-security strategy.

## Departments and Industries

The course supports climate-smart production decisions across agricultural and food-system operations.

- Crop production and horticulture operations
- Livestock, dairy, and mixed-farming systems
- Food processing and agricultural supply chains
- Agricultural extension and advisory services
- Sustainability, environment, and resource management teams
- Public agricultural planning functions

## Learning Objectives

By the end of this course, participants will be able to:

- Analyze agricultural climate hazards, exposure, and vulnerability.
- Apply climate services to seasonal production decisions.
- Compare crop and livestock adaptation options.
- Build soil and water resilience measures.
- Evaluate low-emission agriculture practices and trade-offs.

- Build a climate-smart production and resilience plan.

## Course Agenda

### Day 1: Profile Agricultural Climate Risk

- Agricultural Climate Hazard and Exposure Map
- Farm Vulnerability and Sensitivity Assessment
- Crop and Livestock Risk Register
- Climate Scenario Interpretation Worksheet
- Climate-Smart Agriculture Three-Pillar Decision Frame

### Day 2: Use Climate Services

- Seasonal Climate Information Review Method
- Production Calendar Adjustment Matrix
- Climate Threshold and Trigger Log
- Farm Early-Warning Communication Protocol
- Adaptation Decision Pathway Template

### Day 3: Adapt Production Systems

- Crop Variety and Diversification Options Matrix
- Livestock Heat and Water Stress Control Plan
- Agroforestry and Landscape Diversification Map
- Soil Moisture Conservation Practice Checklist
- Farm Water Balance and Storage Assessment

### Day 4: Reduce Agricultural Emissions

- Agricultural Emissions Source Inventory
- Fertilizer Efficiency and Nitrogen Management Review
- Livestock Feed and Manure Mitigation Options
- Energy and Irrigation Efficiency Comparison
- Adaptation-Mitigation Trade-Off Assessment

### Day 5: Practice Climate-Smart Planning

- Exercise: Complete an Agricultural Climate Risk Profile
- Exercise: Select Seasonal Production Triggers
- Exercise: Compare Crop and Livestock Adaptations
- Exercise: Prioritize Resilience and Emissions Measures
- Capstone Exercise: Complete the Climate-Smart Production and Resilience Plan

## Practical Exercises

The course uses suggested activities based on crop, livestock, horticulture, and food-production settings.

- Suggested activity: map heat, drought, flood, and water-supply exposure across a mixed farming operation.
- Suggested activity: compare soil, crop, livestock, and water adaptations against feasibility, timing, and residual risk.
- Suggested activity: identify agricultural emissions sources and prioritize lower-emission operating practices.
- Suggested activity: combine climate triggers, adaptations, responsibilities, and monitoring measures in a production plan.

## FAQs

### Who suits climate-smart agriculture training?

Climate-smart agriculture training suits professionals who plan or advise crop, livestock, and food-production operations and who can work with production records, resource data, and operating plans.

### How does climate-smart agriculture differ from general climate policy training?

Climate-smart agriculture focuses on farm and production decisions for productivity, resilience, and emissions, while general climate policy training focuses on wider policy instruments, institutions, and economy-level action.

### What does agricultural climate risk assessment examine?

Agricultural climate risk assessment examines hazards, exposure, sensitivity, adaptive capacity, production dependencies, and the residual risk remaining after adaptation measures.

### How can climate-smart agriculture improve production resilience?

Climate-smart agriculture can improve resilience through climate information, diversified production, adapted varieties and breeds, soil-moisture conservation, water management, agroforestry, and operational triggers.

### How does low-emission agriculture support climate-smart production?

Low-emission agriculture supports climate-smart production by improving fertilizer, feed, manure, energy, irrigation, and land-management decisions while testing trade-offs with productivity and resilience.

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## Conclusion

Participants take back a Climate-Smart Production and Resilience Plan connecting hazards, climate information, adaptations, emissions measures, responsibilities, and monitoring. It makes farm-level climate decisions traceable. The plan supports seasonal adjustments, investment priorities, and coordinated action across crop, livestock, soil, and water systems.