



Crop & Agricultural Production Management

28 Dec 2026 - 01 Jan 2027
London (UK)



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Ref.: 16419_1019890 **Date:** 28 Dec 2026 - 01 Jan 2027 **Location:** London (UK) **Fees:** 5900 Euro

Introduction:

The Crop and Agricultural Production Management course provides participants with a rigorous theoretical foundation in managing crop systems, from soil health to harvest planning. It explores the full spectrum of production management, including agronomy, resource optimization, risk mitigation, and sustainability in agriculture. The course covers integrated approaches to pest, nutrient, water, and crop system management.

Participants will learn analytical frameworks and decision models that guide efficient production in diverse agroecosystems. This Crop and Agricultural Production Management program will also emphasize aligning production goals with environmental stewardship and market demands. Learners will lead or advise agricultural enterprises, research programs, or policy initiatives in crop production management.

Targeted Groups:

This Crop and Agricultural Production Management training targets professionals seeking specialized knowledge and skills:

- Farm managers in medium to large-scale operations.
- Agronomists and crop advisors are seeking deeper theoretical insight.
- Agricultural extension officers and consultants.
- Researchers or postgraduate students in agronomy or crop science.
- Policy makers focused on farm productivity and sustainability.
- Agribusiness managers oversee production planning.

Course Objectives:

Participants will achieve the following objectives by completing the Crop and Agricultural Production Management course:

- Explain core principles of crop physiology, soil science, and system ecology in a production context.
- Design crop production plans balancing yield, resource use, and environmental limits.
- Analyze data from soil tests, climate, and input trials to make management decisions.
- Evaluate pest, disease, and weed pressures and propose integrated control strategies.
- Formulate budgeting, risk mitigation, and productivity-improvement scenarios.
- Predict outcomes of management choices under varying climate, soil, or market conditions.
- Communicate production strategies to stakeholders with clarity and evidence.
- Monitor and adjust production operations dynamically using feedback loops and performance metrics.

Targeted Competencies:

Participants will gain the following competencies during the Crop and Agricultural Production Management program:

- Ability to interpret soil and plant diagnostic data and translate it into actionable fertilizer and amendment plans.
- Skill in constructing and adjusting crop system schedules planting, rotation, irrigation under real constraints.
- Capability to assess and integrate pest, disease, and weed management strategies in crop production.
- Strategic competence in financial planning, budgeting, and scenario analysis for crop enterprises.
- Proficiency in risk assessment climate, disease, market and in devising mitigation tactics.
- Capacity to model and predict outcomes of management interventions under uncertainty.
- Competence in synthesizing theoretical frameworks and conveying them in proposals or advisory form.

Studying Scenarios:

In this Crop and Agricultural Production Management training, participants will develop their skills through the analysis of the following scenarios:

- Mid-latitude cereal producer facing variable rainfall patterns and fertilizer limits.
- A vegetable farm needs to manage pest pressure under both organic and conventional regimes.
- Rotation system integrating legumes and cereals under soil fertility constraints.
- Risk scenario with a disease outbreak mid-season on a staple crop.
- Endangered Soil Water Balance Scenario under Deficit Irrigation Demand.
- Budgeting scenario confronting input price volatility in fertilizer and seed markets.

Course Content:

Unit 1: Foundations of Crop & Agricultural Production Management:

- Overview of crop production systems and classifications.
- Crop physiology: growth stages, source-sink relations, phenology.
- Soil science essentials: texture, structure, organic matter, CEC.
- Water relations: infiltration, retention, plant uptake, evapotranspiration.
- Atmospheric and climatic effects on crops include radiation, temperature, and vapor pressure.
- Introduction to integrated crop systems and sustainability perspectives.

Unit 2: Soil, Fertility & Nutrient Dynamics:

- Soil testing protocols and interpretation of analytical results.
- Macronutrients and micronutrients: role, deficiency symptoms, interactions.
- Organic amendments, manure, compost, and biofertilizer integration.
- Fertilizer types, timing, placement, and split applications.
- pH, liming, and soil acidity management.
- Nutrient budgeting, losses leaching, volatilization, and recovery strategies.
- Precision fertilization and variable rate techniques.

Unit 3: Crop Establishment, Rotation & Growth Management:

- Seed selection, seed quality, and germination parameters.
- Sowing methods, density, depth, and spacing.
- Crop rotation design, cover crops, and break crops.
- Intercropping, relay cropping, and sequential cropping strategies.
- Canopy management, pruning, and thinning where relevant.
- Growth monitoring, growth stage diagnostics, and critical periods.
- Use of decision support tools in crop management.

Unit 4: Pest, Disease & Weed Management in Crop Production:

- Concepts in integrated pest management IPM and thresholds.
- Pest and disease identification, life cycles, and monitoring.
- Biological, cultural, mechanical, and chemical control options.
- Herbicide mode of action, resistance management, and weed ecology.
- Forecasting and early warning systems.
- Safe application, drift control, and regulation compliance.
- Resistance strategies and sustainable suppression.

Unit 5: Harvest, Post-Harvest Handling & Production Strategy:

- Harvest timing, maturity indices, and yield estimation.
- Harvest machinery, techniques, and logistics.
- Grain/crop drying, storage, quality maintenance, and loss minimization.
- Grading, packing, and market preparation.
- Enterprise budgeting, break-even, and cost analysis.
- Scenario modelling: sensitivity to input cost, yield risk, and climate variation.
- Key components of long-term planning: Monitoring, feedback loops, and adaptive management.

Final Insights & Key Takeaways:

This course empowers participants with a robust theoretical framework to manage modern crop systems effectively and sustainably. Learners will leave equipped to design, analyze, and adapt agricultural production strategies under real-world constraints.



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**Registration form on the :
Crop & Agricultural Production Management**

code: 16419 **From:** 28 Dec 2026 - 01 Jan 2027 **Venue:** London (UK) **Fees:** 5900 **Euro**

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