

Smart Agriculture Technology and Farm Decisions Course

7 – 11 June 2027
London

AGILE LEADERS
Training Center

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Overview

The Smart Agriculture Technology and Farm Decisions Course is a one-week intermediate course for farm, agribusiness, engineering, extension, technology, and sustainability professionals who leave with a Smart Agriculture Implementation Plan. It connects farm use cases, agricultural IoT, sensor data, remote sensing, precision agriculture, smart irrigation, livestock monitoring, automation, interoperability, cybersecurity awareness, economics, and adoption. Participants translate technology options into monitored operating decisions. Agile Leaders Training Center delivers this course on smart agriculture technology and farm decisions.

Who Should Attend

- Teams responsible for crop, livestock, irrigation, or farm operating decisions
- Engineering functions responsible for agricultural systems and equipment
- Extension teams responsible for advising producers on technology adoption
- Agribusiness functions responsible for productivity, resources, and investment
- Technology and sustainability teams responsible for connected agricultural solutions

The course assumes participants work with agricultural operations or technology decisions and leaves out software development, equipment certification, and specialist agronomic diagnosis.

Departments and Industries

The course supports technology and resource decisions across agricultural and food-production settings.

- Crop production and farm operations
- Livestock, dairy, and controlled environments
- Agricultural engineering and irrigation services
- Food production and agribusiness supply chains
- Rural development and agricultural extension

Learning Objectives

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

- Analyze farm needs and prioritize technology use cases
- Build sensor, connectivity, and data collection plans
- Apply remote sensing and precision agriculture methods
- Evaluate automation and interoperability options
- Compare economics, risks, and adoption requirements
- Create a Smart Agriculture Implementation Plan

Course Agenda

Day 1: Farm Needs and Smart Use Cases

- Farm Process and Decision Mapping Canvas
- Crop and Livestock Monitoring Requirement Register
- Smart Agriculture Use Case Prioritization Matrix
- Baseline Resource and Performance Indicator Set
- Technology Benefit Risk and Feasibility Scorecard

Day 2: Sensors Connectivity and Farm Data

- Soil Weather and Environmental Sensor Selection Matrix
- Livestock and Asset Tracking Data Map
- Agricultural IoT Connectivity Architecture
- Farm Data Collection and Quality Protocol
- Device Maintenance and Calibration Schedule

Day 3: Remote Sensing and Precision Decisions

- Satellite Drone and Field Imagery Source Map
- Geographic Information System Layer Design
- Vegetation and Crop Condition Interpretation Method
- Precision Irrigation Decision Rule Set
- Variable Input Application Planning Grid

Day 4: Automation Economics and Adoption

- Equipment Automation and Control Workflow
- System Interoperability and Data Exchange Checklist
- Agricultural IoT Cybersecurity Awareness Review
- Technology Cost Benefit and Scenario Model
- Adoption Capability and Change Action Map

Day 5: Smart Agriculture Practice

- Suggested Exercise: Farm Use Case Selection
- Suggested Exercise: Sensor and Connectivity Design
- Suggested Exercise: Imagery and Precision Decision Challenge
- Suggested Exercise: Economics Risk and Adoption Review
- Capstone Exercise: Smart Agriculture Implementation Plan

Practical Exercises

The course includes suggested activities for converting farm evidence into technology and operating decisions.

- Suggested activity: prioritize sensor and monitoring use cases for a crop farm.
- Suggested activity: design a connected livestock monitoring data flow.
- Suggested activity: interpret imagery for irrigation and input decisions.
- Suggested activity: present a Smart Agriculture Implementation Plan with economics and adoption actions.

FAQs

Who suits the Smart Agriculture Technology and Farm Decisions Course?

Farm managers, agribusiness teams, agricultural engineers, extension specialists, technology providers, sustainability professionals, and production planners suit the course; it assumes involvement in agricultural operations or technology decisions.

How does smart agriculture differ from a general agriculture technology course?

Smart agriculture integrates sensors, connectivity, data, imagery, automation, and decision rules into an operating system, while a general technology course may survey individual tools without implementation planning.

How does agricultural IoT support farm decisions?

Agricultural IoT connects sensors, devices, equipment, and data platforms so teams can monitor conditions, recognize changes, trigger alerts, and support defined crop, livestock, irrigation, and asset decisions.

Why is interoperability important in smart farming?

Interoperability allows devices, platforms, and applications to exchange usable data, reducing isolated systems and supporting traceable monitoring, analytics, automation, and farm-management decisions.

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What belongs in a smart agriculture implementation plan?

A smart agriculture implementation plan links farm needs, prioritized use cases, sensors, connectivity, data, imagery, automation, interoperability, security awareness, economics, owners, adoption actions, indicators, and review points.

Conclusion

Participants leave with a Smart Agriculture Implementation Plan linking farm needs, connected technologies, data, decisions, economics, controls, and adoption. The work product improves the traceability of technology investments and operating changes. It gives agricultural teams a reusable structure for phased implementation, monitoring, and review.