



PERTECNCA'S

# AGRICULTURE DRONE

# TRAINING

# BROCHURE



Practical training



Post training assistance

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# AGRICULTURE DRONE TRAINING

The Agriculture Drone Training program is designed to provide participants with the skills and knowledge necessary to operate drones for agricultural applications. This course covers the fundamentals of drone technology, regulations, and safety, as well as advanced techniques for crop monitoring, precision agriculture, and data analysis. Ideal for those looking to integrate modern technology into farming practices, this training combines theoretical learning with hands-on drone operation experience.

## **What you'll learn?**

- Basics of drone technology and its applications in agriculture
- Understanding of drone regulations, safety protocols, and legal compliance
- Techniques for aerial mapping and surveying of agricultural fields
- Precision agriculture practices using drone-based data collection
- Real-time crop monitoring and analysis using drones
- Application of drones in pesticide and fertilizer spraying
- Data interpretation and decision-making based on drone imagery

## **Course summary:**

This comprehensive training program is tailored to equip you with the essential skills required to effectively use drones in agriculture. Whether you're interested in crop monitoring, soil analysis, or precision farming, this course will prepare you to utilize drone technology to enhance agricultural productivity.

## **Key Takeaways:**

- Mastery of drone operations tailored for agricultural use
- Proficiency in conducting aerial surveys and generating detailed field maps
- Expertise in utilizing drones for precision agriculture and real-time monitoring
- In-depth knowledge of regulatory requirements and safe drone operation

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# Course syllabus:

## **Module 1: Introduction to Drone Technology in Agriculture**

- Overview of drone technology and its role in modern agriculture
- Types of drones used in agriculture and their specific applications
- Basic drone components and functionality
- Introduction to drone software and flight control systems

## **Module 2: Drone Regulations and Safety Protocols**

- Understanding local and international drone regulations
- Legal requirements for drone operation in agriculture
- Safety protocols for drone flights over agricultural fields
- Insurance and liability considerations for agricultural drone use

## **Module 3: Aerial Mapping and Field Surveying**

- Techniques for aerial mapping and creating high-resolution field maps
- Using drones for topographic surveys and field boundary delineation
- Processing and analyzing aerial images for agricultural insights
- Generating actionable data from drone surveys for farm management

## **Module 4: Precision Agriculture with Drones**

- Introduction to precision agriculture and its benefits
- Using drones for targeted crop monitoring and management
- Variable rate technology (VRT) and drone-based precision farming
- Implementing precision agriculture strategies based on drone data

## **Module 5: Crop Health Monitoring and Analysis**

- Using drones for real-time crop health assessment
- Understanding multispectral and thermal imaging for agriculture
- Identifying crop stress, nutrient deficiencies, and pest infestations
- Analyzing drone-captured data for crop health improvement

## **Module 6: Pesticide and Fertilizer Application**

- Introduction to drone-based pesticide and fertilizer spraying
- Safe and efficient spraying techniques using drones
- Calibrating drone sprayers for precise application rates
- Compliance with environmental regulations in aerial spraying

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## **Module 7: Data Analysis and Decision-Making**

- Processing and interpreting drone-captured imagery
- Using data analytics tools for agricultural decision-making
- Integrating drone data with farm management software
- Case studies on successful drone applications in agriculture

## **Module 8: Practical Drone Operation and Maintenance**

- Hands-on training in drone assembly, calibration, and maintenance
- Flight training sessions in various agricultural settings
- Troubleshooting common drone issues and performing repairs
- Best practices for extending drone lifespan and performance

## **Module 9: Real-Time Projects in Drone operation**

- Field projects focused on real-time drone applications in agriculture
- Crop monitoring and health assessment project
- Aerial mapping and surveying project for large agricultural fields
- Precision agriculture project implementing VRT and drone technology

## **Module 10: Evaluation and Certification**

- Final assessment through practical drone operation and data analysis
- Presentation and evaluation of a comprehensive drone project
- Certification of completion with a focus on agricultural drone expertise

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## **Practical training:**

- **Drone Handling and Safety:** Hands-on training in the safe operation and maintenance of agricultural drones.
- **Field Surveying:** Practical exercises in aerial mapping and field surveying for accurate data collection.
- **Crop Monitoring:** Real-time crop health monitoring using multispectral and thermal cameras.
- **Precision Agriculture Applications:** Implementing drone technology in precision farming for targeted interventions.
- **Spraying Operations:** Practical sessions on drone-based pesticide and fertilizer application.
- **Data Analysis:** Interpreting drone-captured imagery for actionable agricultural insights.
- **Regulatory Compliance:** Understanding and adhering to local and international drone regulations in agriculture.

## **Career scope:**

Upon completing the Agriculture drone training course, graduates can explore career opportunities in various sectors, including:

- Agricultural Drone Operator
- Precision Agriculture Specialist
- Drone Survey Technician
- Agricultural Consultant
- Farm Manager
- Remote Sensing Specialist
- Crop Monitoring Expert
- Pesticide and Fertilizer Application Technician
- Agricultural Data Analyst
- Drone Technology Instructor

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