



PERTECNCA'S

POLYHOUSE FARMING TRAINING BROCHURE



Practical training



Post training assistance

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POLYHOUSE FARMING TRAINING

The Polyhouse Farming Training Program is a comprehensive course designed to introduce participants to the modern techniques and practices of polyhouse farming. This program focuses on controlled-environment agriculture, enabling farmers to grow high-quality crops throughout the year, regardless of external weather conditions. Ideal for aspiring farmers, agricultural entrepreneurs, and agribusiness professionals, this training offers both theoretical knowledge and practical experience in polyhouse farming.

What you'll learn?

- Fundamentals of polyhouse farming and its advantages
- Construction and design of polyhouses for various crops
- Climate control and automation in polyhouse environments
- Crop selection, cultivation techniques, and pest management in polyhouses
- Best practices for maximizing yield and profitability

Course summary:

Our Polyhouse farming is a method of growing crops in a controlled environment, using structures made of transparent materials that allow sunlight to pass through while protecting plants from adverse weather conditions. This training program covers everything from the basics of polyhouse farming to advanced techniques for managing climate, soil, water, and pests. Participants will gain hands-on experience in setting up and managing a polyhouse, ensuring that they are well-prepared to enter the growing field of controlled-environment agriculture.

Key Takeaways:

- Understanding the benefits and challenges of polyhouse farming
- Skills in designing and constructing polyhouses for different crops
- Knowledge of climate control systems, including heating, cooling, and ventilation
- Techniques for optimizing soil health, irrigation, and fertilization in polyhouses
- Strategies for effective pest and disease management in a controlled environment

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Course syllabus:

Module 1: Introduction to Polyhouse Farming

- Overview of polyhouse farming and its benefits
- Comparison of polyhouse farming with open-field farming
- Understanding different types of polyhouses and their applications
- Introduction to the economics of polyhouse farming

Module 2: Designing and Constructing a Polyhouse

- Principles of polyhouse design and construction
- Selection of materials and structures for different climates
- Step-by-step guide to building a polyhouse
- Installation of climate control systems, including heating, cooling & ventilation

Module 3: Climate Control in Polyhouses

- Understanding the importance of climate control in polyhouse farming
- Techniques for regulating temperature, humidity, and light levels
- Automation and monitoring systems for maintaining optimal growing conditions
- Troubleshooting common climate-related issues in polyhouses

Module 4: Soil and Water Management

- Soil preparation and management techniques for polyhouse farming
- Methods for improving soil fertility and structure in a controlled environment
- Efficient irrigation systems, including drip and mist irrigation
- Water management practices to prevent overwatering and ensure sustainability

Module 5: Crop Selection and Cultivation Techniques

- Criteria for selecting crops suitable for polyhouse farming
- Best practices for planting, growing, and harvesting crops in a polyhouse
- Techniques for extending growing seasons and maximizing yields
- Introduction to high-value crops, including vegetables, flowers, and herbs

Module 6: Pest and Disease Management in Polyhouses

- Identification and control of common pests and diseases in polyhouse environments
- Integrated Pest Management (IPM) strategies for polyhouse farming
- Use of biological controls and organic treatments in pest management
- Prevention and management of disease outbreaks in polyhouses

Module 7: Nutrient Management and Fertilization

- Understanding the nutrient requirements of crops grown in polyhouses
- Techniques for soil testing and nutrient analysis
- Best practices for fertilization in a controlled environment
- Use of organic and synthetic fertilizers for optimal crop growth

Module 8: Harvesting and Post-Harvest Management

- Timing and techniques for harvesting crops grown in polyhouses
- Post-harvest handling, storage, and packaging of produce
- Quality control measures to ensure high market value
- Strategies for marketing and selling polyhouse-grown produce

Module 9: Financial Planning in Polyhouse Farming

- Cost analysis and budgeting for polyhouse farming projects
- Strategies for maximizing profitability through efficient resource management
- Accessing funding and subsidies for polyhouse farming ventures
- Case studies of successful polyhouse farming businesses

Module 10: Practical Training in Polyhouse Farming

- On-site training in constructing and managing a polyhouse
- Real-world exercises in climate control, crop cultivation, and pest management
- Practical sessions on soil and water management in a controlled environment
- Hands-on experience with advanced polyhouse farming technologies

Module 11: Evaluation and Certification

- Final assessment through practical demonstrations and exams
- Evaluation of participants' skills in polyhouse design, management, and crop production
- Certification of completion, recognizing expertise in polyhouse farming

Practical training:

- Polyhouse Construction: Hands-on experience in building and setting up a polyhouse structure.
- Climate Control Systems: Training on the installation and operation of heating, cooling, and ventilation systems.
- Crop Cultivation: Practical sessions on planting, nurturing, and harvesting crops within a polyhouse.
- Pest and Disease Management: Field exercises in identifying and controlling pests and diseases in a controlled environment.

Career scope:

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

- Polyhouse Farm Manager
- Agricultural Consultant
- Controlled Environment Agriculture (CEA) Specialist
- Agribusiness Entrepreneur
- Horticulture Technician
- Farm Supervisor
- Agriculture Extension Officer
- Crop Production Specialist
- Greenhouse Manager
- Sustainable Agriculture Expert

