



PERTECNCA'S

GREENHOUSE FARMING

TRAINING

BROCHURE



Practical training



Post training assistance

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GREENHOUSE FARMING TRAINING

The Greenhouse Farming Training Program is designed to provide comprehensive knowledge and practical skills required for successful crop production in a controlled environment. This course focuses on the principles of greenhouse farming, including crop selection, climate management, pest control, and sustainable practices, enabling participants to maximize yield and quality.

What you'll learn?

- Principles of greenhouse farming and its advantages
- Crop selection based on market demand and environmental conditions
- Climate control strategies for optimal plant growth
- Integrated pest management in greenhouse environments
- Sustainable practices for resource conservation

Course summary:

Greenhouse farming is a transformative approach to agriculture that allows for the cultivation of crops throughout the year, regardless of external weather conditions. This training program covers all aspects of greenhouse farming, from setting up and managing greenhouses to advanced techniques for increasing productivity and ensuring sustainability. Participants will gain hands-on experience in greenhouse management, including climate control, irrigation, and pest management.

Key Takeaways:

- Mastery of greenhouse farming techniques
- Knowledge of selecting and cultivating high-value crops
- Skills in managing greenhouse climate for different crops
- Expertise in sustainable farming practices within a greenhouse setting
- Ability to optimize production and reduce environmental impact

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Course syllabus:

Module 1: Introduction to Greenhouse Farming

- Overview of greenhouse farming and its benefits
- Types of greenhouses and their applications
- Introduction to controlled-environment agriculture
- Economic and environmental impacts of greenhouse farming

Module 2: Greenhouse Design and Setup

- Planning and designing greenhouses for specific crops
- Selection of materials for greenhouse construction
- Setting up climate control systems: heating, cooling, and ventilation
- Installation of irrigation systems for efficient water use

Module 3: Crop Selection and Planning

- Factors influencing crop selection in greenhouses
- High-value crops suitable for greenhouse cultivation
- Crop rotation and succession planting strategies
- Planning for continuous and seasonal production

Module 4: Climate Control and Environmental Management

- Understanding the greenhouse effect and microclimates
- Techniques for managing temperature, humidity, and light
- Use of sensors and automation in climate control
- Troubleshooting climate-related issues in greenhouses

Module 5: Soil and Growing Media Management

- Soil health and fertility management in greenhouses
- Selection of growing media for different crops
- Techniques for improving soil structure and drainage
- Best practices for soil sterilization and pest prevention

Module 6: Irrigation and Water Management

- Designing and installing efficient irrigation systems
- Drip and micro-sprinkler systems for water conservation
- Monitoring and managing water quality and supply
- Strategies for preventing waterborne diseases in crops

Module 7: Pest and Disease Management

- Identification and control of common greenhouse pests
- Integrated pest management (IPM) strategies
- Use of biological controls and organic pesticides
- Disease prevention and treatment in greenhouse crops

Module 8: Sustainable Greenhouse Practices

- Principles of sustainable agriculture in greenhouse farming
- Energy-efficient practices for heating, cooling, and lighting
- Water conservation techniques and recycling systems
- Reducing chemical inputs through organic farming methods

Module 9: Harvesting and Post-Harvest Management

- Best practices for harvesting greenhouse crops
- Techniques for handling and packaging to maintain quality
- Storage solutions to extend the shelf life of produce
- Marketing and distribution strategies for greenhouse products

Module 10: Practical Farming Projects

- Real-world project involving the setup and management of a greenhouse
- Hands-on cultivation of selected crops from planting to harvest
- Implementation of climate control and pest management strategies
- Collaboration on optimizing production and solving real-time challenges

Module 11: Evaluation and Certification

- Comprehensive assessment through practical and theoretical exams
- Evaluation of participants' proficiency in greenhouse farming techniques
- Certification of completion, validating expertise in the field
- Opportunities for advanced specialization in controlled-environment agriculture

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Practical training:

- Greenhouse Setup: Practical training on setting up and organizing greenhouses.
- Crop Cultivation: Hands-on experience in selecting and growing various crops.
- Climate Control: Techniques for managing temperature, humidity, and light.
- Pest Management: Integrated pest control methods in a controlled environment.
- Sustainable Practices: Implementation of resource-saving techniques for water and energy.

Career scope:

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

- Greenhouse Farm Manager
- Controlled-Environment Agriculture Specialist
- Sustainable Farming Consultant
- Agricultural Extension Officer
- Greenhouse Technician
- Crop Production Supervisor
- Horticulture Specialist
- Agri-Entrepreneur



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