



PERTECNCA'S

POLYHOUSE CONSTRUCTION & MAINTENANCE TRAINING BROCHURE



Practical training



Post training assistance

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POLYHOUSE CONSTRUCTION & MAINTENANCE TRAINING

The Polyhouse Construction and Maintenance Training Program is designed for individuals aspiring to master the construction, maintenance, and efficient management of polyhouses. This comprehensive course covers all aspects of polyhouse building and upkeep, ensuring that participants gain practical knowledge and skills to create and maintain optimal growing environments for a wide variety of crops.

What you'll learn?

- Comprehensive design principles for polyhouses
- Material selection and construction techniques
- Installation and management of climate control systems
- Regular maintenance practices for polyhouse longevity
- Troubleshooting and repair of polyhouse structures

Course summary:

Polyhouses play a vital role in modern agriculture by enabling controlled environments for crop production, regardless of external weather conditions. This training program focuses on both the construction and the ongoing maintenance of polyhouses, ensuring participants are fully equipped to handle every aspect of polyhouse management. Through hands-on training and real-world projects, participants will develop the skills needed to build durable polyhouses and maintain them for long-term productivity.

Key Takeaways:

- Deep understanding of polyhouse construction techniques
- Expertise in selecting materials suited for various climates and crops
- Skills in installing and optimizing climate control systems
- Proficiency in routine maintenance and troubleshooting
- Ability to manage polyhouses for sustained agricultural success

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Course syllabus:

Module 1: Introduction to Polyhouse Technology

- Overview of polyhouse applications in agriculture
- Benefits of polyhouses in different climatic zones
- Introduction to different polyhouse designs and their purposes
- Economic and environmental advantages of polyhouse farming

Module 2: Polyhouse Design and Planning

- Understanding crop-specific polyhouse design requirements
- Customization of polyhouse designs for varied climates
- Planning for scalability and future expansion
- Budgeting and resource allocation for polyhouse projects

Module 3: Material Selection and Construction Basics

- Overview of materials used in polyhouse construction
- Techniques for selecting cost-effective and durable materials
- Step-by-step guide to the construction of the polyhouse framework
- Best practices for securing and stabilizing the structure

Module 4: Installation of Covering Materials

- Types of covering materials: selection and application
- Techniques for securing covering materials to prevent damage
- Maintenance of covering materials for long-term use
- Addressing common issues with polyhouse coverings

Module 5: Climate Control Systems Setup

- Introduction to climate control systems in polyhouses
- Installation and configuration of ventilation, heating, and cooling systems
- Automation and monitoring of climate control equipment
- Troubleshooting and optimizing climate systems for different crops

Module 6: Irrigation and Water Management Systems

- Design and installation of efficient irrigation systems
- Integration of drip and sprinkler systems within polyhouses
- Water conservation strategies and management techniques
- Maintenance of irrigation systems to ensure optimal performance

Module 7: Electrical Systems and Lighting Setup

- Electrical wiring and setup for polyhouse operations
- Installation of grow lights and supplementary lighting systems
- Energy-efficient practices for polyhouse electrical systems
- Safety protocols for electrical installations in polyhouses

Module 8: Polyhouse Maintenance and Repair

- Routine maintenance practices to extend polyhouse lifespan
- Identifying and addressing structural issues in polyhouses
- Repair techniques for common polyhouse problems
- Seasonal maintenance schedules for optimal performance

Module 9: Troubleshooting and Problem Solving

- Common issues faced in polyhouse management
- Practical approaches to diagnosing and fixing problems
- Case studies on successful polyhouse troubleshooting
- Proactive strategies to prevent recurring issues

Module 10: Practical Construction & Maintenance Projects

- Real-world project in polyhouse construction
- Hands-on experience in maintaining a functioning polyhouse
- Application of learned techniques in a controlled environment
- Collaboration with peers on solving maintenance challenges

Module 11: Evaluation and Certification

- Comprehensive assessment through practical and theoretical exams
- Evaluation of participants' proficiency in polyhouse construction - maintenance
- Certification of completion, validating expertise in the field
- Opportunities for advanced training and specialization in polyhouse technology

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Practical training:

- Polyhouse Construction: Engage in the step-by-step construction of a polyhouse, from foundation to final touches.
- Climate Control Systems: Hands-on installation and configuration of ventilation, heating, and cooling systems.
- Maintenance Techniques: Learn practical methods for maintaining the structural integrity and functionality of polyhouses.
- Real-Time Problem Solving: Address common challenges in polyhouse maintenance through real-world case studies.

Career scope:

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

- Polyhouse Construction Engineer
- Agricultural Infrastructure Specialist
- Polyhouse Maintenance Supervisor
- Greenhouse Operations Manager
- Sustainable Farming Consultant
- Agricultural Project Manager
- Polyhouse Design and Maintenance Consultant

