



PERTECNCA'S

POLYHOUSE & GREENHOUSE TECHNICIAN TRAINING BROCHURE



Practical training



Post training assistance

CONTACT US

**www.pertecnica.com
7842430123**

POLYHOUSE & GREENHOUSE TECHNICIAN

Advance your agricultural career with our Polyhouse and Greenhouse technician training. This Shade House Technician training course is designed to provide you with the skills and knowledge necessary to construct, maintain, and manage polyhouses, greenhouses, and shade houses. As a technician, you will learn about the different structures, environmental controls, and crop management techniques to enhance productivity and crop quality in controlled environments.

What you'll learn?

- Fundamentals of polyhouses, greenhouses, and shade houses
- Design and construction of controlled environment structures
- Environmental control systems (temperature, humidity, ventilation)
- Crop selection and management in controlled environments
- Soil and substrate management
- Irrigation systems for polyhouses and greenhouses
- Pest and disease management
- Maintenance and troubleshooting of structures and systems
- Sustainable and eco-friendly practices
- Use of technology in controlled environment agriculture

Course summary:

Our Polyhouse and Greenhouses Technician training course offers comprehensive training in the construction, maintenance, and management of controlled environment structures. You will gain practical knowledge and skills to enhance crop production and quality through effective use of polyhouses, greenhouses, and shade houses. The course focuses on modern technologies and sustainable practices to ensure efficient and eco-friendly farming.

- Detailed training in the design and construction of controlled environment structures
- Effective environmental control and management techniques
- Advanced crop management strategies for polyhouses and greenhouses
- Practical knowledge of soil, substrate, and irrigation systems
- Techniques for pest and disease management in controlled environments

CONTACT US

**www.pertecnica.com
7842430123**

Course syllabus:

Module 1: Introduction to Protected Cultivation

- Overview of Protected Cultivation
- Importance and Benefits of Poly Houses, Green Houses, and Shade Houses
- Roles and Responsibilities of a Technician

Module 2: Types of Protected Structures

- Poly Houses: Types and Features
- Green Houses: Types and Features
- Shade Houses: Types and Features
- Comparison of Different Structures

Module 3: Site Selection and Preparation

- Criteria for Site Selection
- Land Preparation and Layout Planning
- Infrastructure Requirements (Water, Electricity, Roads)
- Environmental Considerations

Module 4: Construction and Materials

- Types of Construction Materials (Frames, Coverings, Shading)
- Construction Techniques for Poly Houses
- Construction Techniques for Green Houses
- Construction Techniques for Shade Houses
- Safety Practices in Construction

Module 5: Environmental Control Systems

- Temperature Control: Heating and Cooling Systems
- Humidity Control Methods
- Ventilation Systems
- Light Management and Shading Techniques
- Use of Sensors and Automated Control Systems

Module 6: Irrigation Systems in Protected Cultivation

- Drip Irrigation Systems: Design and Installation
- Sprinkler Irrigation Systems: Design and Installation
- Automated Irrigation Systems
- Water Management and Conservation Practices

Module 7: Soil and Substrate Management

- Soil Preparation and Fertility Management
- Types of Substrates and Their Uses
- Soil-less Cultivation Techniques (Hydroponics, Aeroponics)
- Nutrient Management

Module 8: Crop Management in Protected Structures

- Selection of Crops for Poly Houses, Green Houses, and Shade Houses
- Planting Techniques and Schedules
- Pruning, Training, and Trellising
- Pollination Techniques
- Integrated Pest and Disease Management (IPM)

Module 9: Maintenance and Troubleshooting

- Routine Maintenance Practices
- Identifying and Solving Common Problems
- Repair Techniques for Structures and Systems
- Seasonal Maintenance and Overhauls

Module 10: Harvesting and Post-Harvest Management

- Identifying the Right Time for Harvesting
- Harvesting Techniques for Different Crops
- Post-Harvest Handling and Storage
- Reducing Post-Harvest Losses

Module 11: Business and Marketing Skills

- Planning and Managing a Protected Cultivation Business
- Cost Analysis and Budgeting
- Marketing Strategies for High-Value Crops
- Customer Relationship Management

CONTACT US

**www.pertecnica.com
7842430123**

Module 12: Sustainable Practices and Innovations

- Sustainable Agriculture Practices
- Innovations in Protected Cultivation
- Use of Renewable Energy Sources
- Waste Management and Recycling

Module 13: Practical Training and Hands-On Experience

- Construction of Poly Houses, Green Houses, and Shade Houses
- Installation and Operation of Environmental Control Systems
- Setting Up and Managing Irrigation Systems
- Crop Management Practices in Protected Structures

Module 14: Field Visits and Case Studies

- Visits to Successful Protected Cultivation Projects
- Case Studies of Innovative Practices
- Interaction with Industry Experts and Professionals
- Problem-Solving and Real-World Applications

Evaluation and Certification

- Written and Practical Examinations
- Continuous Assessment through Assignments and Projects
- Certification upon Successful Completion

CONTACT US

**www.pertecnica.com
7842430123**

Practical training:

- Hands-on experience in designing and constructing polyhouses, greenhouses, and shade houses
- Practical training in installing and maintaining environmental control systems
- Real-time projects on crop management in controlled environments
- Workshops on soil, substrate, and irrigation management
- Case studies on successful polyhouse and greenhouse projects
- Field visits to operational polyhouses and greenhouses
- Training in the use of technology for environmental control
- Projects on sustainable and eco-friendly farming practices

Career scope:

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

- Commercial farms and agricultural enterprises
- Horticultural companies
- Agribusiness companies
- Agricultural consulting firms
- Government agricultural departments
- Research and development institutions in agriculture
- Non-governmental organizations focused on sustainable farming
- Landscaping companies
- Agritech companies
- Educational institutions offering agricultural courses

