

Organic Grower cum Green House Operator Skills

जैविक खेती एक वैकल्पिक कृषि प्रणाली है जो सबसे तेजी से उभरती पद्धति है, इस कौशल से गुणवत्ता व उत्पादकता के संतुलन को बनाए रखते हुए लाभप्रद व सुरक्षित भोज्य उत्पादन का कौशल आता है। रोजगार के क्षेत्र में प्रचुर संभावनाएं हैं। ग्रीन हाउस ओपरेटर के रूप में व्यक्ति विभिन्न ग्रीन हाउस घटकों, स्वचालन और मशीनों का संचालन करता है, जो उन्हें ग्रीन हाउस के अंदर सूक्ष्म जलवायु को नियंत्रित करने में सक्षम बनाता है साथ ही समय आधार पर सिंचाई व प्रजनन प्रक्रिया में मदद करता है।

| Course Name | Organic Grower cum Green House Operator Skills | Course Code | AGR/Q1201-1003 |
|--|--|-------------|----------------|
| <p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • Produce Organic Crops: Introduction to Organic farming, Crops selection, resources, procurement of inputs, cropping pattern, schedule etc • Grow and manage crop: Crop cultivation under organic farming, inter cultural operations – organic farming. • Maintain the required environment of greenhouse: temperature, humidity, light on daily basis as per the crop requirement. • Undertake various greenhouse operations: preparing growth media, planting, weeding, irrigation, harvesting etc • Care and maintenance: monitor the plants regularly for their healthy growth | | | |

CURRICULUM / SYLLABUS

Part-A (Domain Skills)

| S. No. | Module | Duration (In Hours) |
|--------|--|---------------------|
| 1. | <p>Introduction-</p> <ul style="list-style-type: none"> • General Instructions to the Trainee • Understand the Role of an Organic Grower • Understand and study the Scopes and Opportunities of Organic Farming • Study the Need of Organic Farming in India | 5:00 |
| 2. | <p>Undertake planning for Organic Farming-</p> <ul style="list-style-type: none"> • Selection of Crop • Understand the need of safe farming practices • Understand and practice the type of safe farming practices • Transition to Organic Farming • Prepare Crop portfolios – Multi crop, Feasible crop • Prepare Yearly Plan / Crop Schedule | 10:00 |
| 3. | <p>Seed Selection & treatment under organic farming-</p> <ul style="list-style-type: none"> • Crop Selection • Identify main crop and companion crop • Plan for intercrop, mixed crop, relay crop, trap crop etc • Plan for crop rotation cycle • Selection of seed variety – insect pest resistant, non-genetically modified. • understand the organic practices for seed treatment • identify inputs/material to be used for organic seed treatment • preparation of inputs for seed treatment. | 10:00 |
| 4. | <p>Soil nutrient management under Organic farming-</p> | 10:00 |



| S. No. | Module | Duration (In Hours) |
|--------|--|---------------------|
| | <ul style="list-style-type: none"> Understand the concept of soil nutrient management under organic farming Understand the Soil Activation and Soil enhancement Understand importance of top soil in organic cultivation Identify various methods of activating microbial activity in top soil prepare various organic inputs that can increase soil microbial activity Testing, Soil amendment, manuring, crop selection, land preparation, green manure crop, farm yard manure, use of bio mass etc. | |
| 5. | <p>Weed control under Organic Farming-</p> <ul style="list-style-type: none"> Identification of weeds identify the types of weed in the crop Consult the experts Weed Management undertake mechanical/manual weeding process at appropriate time to avoid crop damage use mulching sheets for cultivation, bio-herbicides for weed control wherever feasible and mechanized weed control equipment | 10:00 |
| 6. | <p>Irrigation Management under Organic farming-</p> <ul style="list-style-type: none"> Identify characteristics of good irrigation system Understand and adopt the micro irrigation techniques Identify the tools/equipments required for micro irrigation Understand the optimum moisture level required for the farm | 10:00 |
| 7. | <p>Integrated Pest and Disease Management under organic farming-</p> <ul style="list-style-type: none"> Identify the crop infestation Identify the symptoms of disease incidence in crop Identify the stages of pest incidence Understand the use of suitable varieties Preventive and curative care Resistant varieties, crop rotation, inter crop, border crop, trap crops, interculture operations, understand the natural enemies of pest, beneficial insects, bio-insecticides, etc | 25:00 |
| 8. | <p>Harvest and Post – harvest management under organic farming-</p> <ul style="list-style-type: none"> Harvesting of the crop: Crop maturity, moisture content during harvesting, etc Understand about the physical admixture during harvesting Harvesting methods and handling of harvested crops Understand the Post-harvest management practices like grading, storage, organically acceptable fumigation, cold storage, packaging and marketing | 10:00 |
| 9 | <p>Undertake Quality assurance & certification in Organic Farming-</p> <ul style="list-style-type: none"> Third party certification process Risk management in compliance of standards Participatory guarantee system Documentation in third party and PGS certification Documents needed for sale of organic produce and traceability | 15:00 |
| 10 | <p>Undertake business of Organic farming-</p> <ul style="list-style-type: none"> Economics of organic farming Connecting with the market and market intelligence Direct marketing | 10.00 |



| S. No. | Module | Duration (In Hours) |
|--------|---|---------------------|
| 11 | Maintain Health & Safety at the work place- <ul style="list-style-type: none"> Perform General safety Rules Gain Knowledge of various health hazards relevant to workplace and basic first aid training. Understand the basic safety checks and other common reported hazards before all farm operation Understand, identify and study the use of equipment, materials safely and correctly | 05.00 |
| 12 | Operate & maintain various greenhouse components- <ul style="list-style-type: none"> Understand various greenhouse components Familiarize with the working of different greenhouse components Operate & maintain various greenhouse equipments Familiarize with Sprinklers, Foggers & Misters Ensure maintenance of proper environment in greenhouse as per the crop requirement | 70:00 |
| 13 | Manage greenhouse operations- <ul style="list-style-type: none"> Understand the crop growth requirements Prepare different growing media for plants Undertake planting, weeding etc Undertake irrigation/ fustigation Harvest/ grade the crop as per the organization's requirement Monitor the plant growth regularly and register anomalies & actions undertaken Maintain greenhouse register | 70:00 |
| | SUBTOTAL | 260.00 |

Part-B (Soft Skills)

| S. No. | Topics | Duration (In Hours) |
|--------|---|---------------------|
| 1. | Development Competency/ Proficiency in English/Vernacular | 10:00 |
| 2. | Effective Communication | 10:00 |
| 3. | Self & time Management | 10:00 |
| 4. | Motivational Techniques | 05:00 |
| 5. | Interpersonal Skill Development | 05:00 |
| 6. | Computer Literacy | 20:00 |
| 7. | Life Skills | 05:00 |
| 8. | Entrepreneurship | 15:00 |
| 9. | Occupational Safety, Health and Environment Education | 10:00 |
| | Sub Total | 90:00 |

Total Course Duration : 350:00 Hours