

# GARDENER

(Registered under Agriculture Skill Council of India)  
(ASCI Code: AGR/Q0801)

## Important Information

<b>Date of the Skill Development Programme</b>	From 10.09.2018 to 31.10.2018	
<b>Minimum Educational Qualification &amp; Experience</b>	<ul style="list-style-type: none"><li>• 5<sup>th</sup> Standard pass, preferably</li><li>• minimum 6 months of experience of working in garden or nursery</li></ul>	
<b>Last date for submitting the application form</b>	09.09.2018	
<b>Minimum Age</b>	17 Years	
<b>Period</b>	38 working days (300 hours)	
<b>No. of Seats</b>	25	
<b>Course Fee</b>	Rs.3,000=00 (Rs. 20,000=00 for sponsored)	
<b>Course Fee Transfer details</b>	Account Holder Name	Director, National Botanical Research Institute, Lucknow
	Branch name and Address	State Bank of India, NBRI, Lucknow
	Account number	30267652846
	IFS Code	SBIN0010173
<b>Address for Sending Application Form</b>	Dr. Arvind Jain, Sr Scientist, Botanic Garden, CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow-226001; Phone: 0522-2297964, 9794611911, Email Id.- a.jain@nbri.res.in, arvindjain9@yahoo.co.in	
<b>Residential/ Non-residential</b>	Non-residential	
<b>Courses</b>	<ol style="list-style-type: none"><li>1. AGR / N0801- Nursery Management and Propagation of Plant Material</li><li>2. AGR / N0802- Designing of Garden Components</li><li>3. AGR / N0803-Plantation, Maintenance and Care of Garden</li><li>4. AGR/N9903- Maintain health &amp; Safety at the work place</li></ol>	

‘Gardener’ in the agriculture industry is a very important job role related to landscaping and gardening activity and in Hindi it is commonly known as ‘Mali’. A Gardener is responsible for taking care of maintenance and beautification of lawns & gardens for private houses, parks, and hotels in order to attract customers. This job requires the individual to work independently and be comfortable in making decisions pertaining to his/her area of work. The individual should be result oriented and have decision making skills for instant problem solving in the specific task at hand.

A Gardener is responsible for tending lawns, trees, shrubs, ground covers. He needs to be aware of the nutritional requirements of plants, soil types and drainage, various common pests, diseases & their control. Gardeners also need to acquire skills in grafting, pruning, weeding and harvesting of flowers, fruits and vegetables. The gardener needs to know use of basic tools and hand powered machinery such as pruners, brush cutters, lawn mowers etc.

## Details of the Course:

### 1. AGR/N0801-Nursery Management & Propagation of Plant Material

This unit deals with management of nursery and propagation of planting materials using different methods.

- **Nursery Management:**

Establish physical infrastructure – shade house, mist chamber, irrigation system; Prepare soil mixtures; Prepare seed beds; Transplant seedlings; Take up potting of seedlings; Take up hardening of seedlings.

- **Propagation Techniques:**

Propagate plants through cuttings; Practice layering and stooling (Guava); Practice grafting (Mango); Practice budding in rose / citrus; Raise root stocks for grafting and budding

- **Some other Operations:**

Use plastics for nursery operations; Identify and grow indoor plants of their basic requirements; Layout nursery area; Identify and use proper root stock and scion for propagation

### 2. AGR/N0802 Designing of Garden Components

This unit deals with creating and designing the various garden components in the field for beautification of garden and landscape.

- **Features of Garden:**

Design various components of Garden like hedge, edge, shrubbery, pergolas, flower bed, lawn, etc.; visualize various components according to actual field; use various components available in the garden area.

- **Type of Gardens:**

Design different types of gardens; utilize the available space effectively for different type of gardens.

- **Actual Design and Layout of Gardens:**

Measure area for layout of garden components; layout for components of garden in the field; plan field design; maintain the plants according to design.

### 3. AGR/N0803 Plantation, Maintenance and Care of Garden

This unit deals with planting, maintaining and taking care garden for the beautification of lawns and gardens

- **Seasonal Gardening And Ground Maintenance:**

Maintain lawn and turf, mowing, fertilizing, weeding, irrigation, aeration, renovation; plant and culture trees; tree selection – type of tree based on location; pit digging; tree placement – use of crane & mechanical methods; back filling; staking; incubating for replanting; fertilizing; irrigation; shaping & pruning; tree protection - pest and diseases, cattle, animals; plant and culture trees, shrubs and plant covers; general planting procedures; general plant maintenance and care

- **Soil and Soil Management:**

Maintain soil texture and structure; take care of water and water movement; take up soil nutrient management; control soil erosion

- **Planting and Culture of Floral Display:**

Plan and prepare bed; plant & culture annuals, bulbs etc; recommend plant spacing; de-head flowers as per the recommended procedures

- **Training and Pruning:**

Prune and trim trees, shrubs, and hedges, using shears, pruners, or chain saw etc; use techniques to shape trees and shrubs as per the recommended procedures

- **Irrigation:**

Install drip and sprinkler system as per the design; Clean filters & drips for optimum flow; understand water requirements of different plants; use watering appliances like drip & sprinklers, water can, seedling water can, bucket, Syringe and Garden hose etc as per the need and procedure

- **Pest & Disease Management:**

Identify pest and diseases; manage pest and diseases; use chemical & non-chemical methods of pest & disease control

- **Other Operations:**

Plant woody plants, bulbs and bedding plants, shrubbery, hedges and edges etc as per procedures; Identify and grow indoor plants as per the design layout; practice in making bonsai; prepare potting mixture, potting and repotting; plant various fruits / crops as per the design and layout

#### **4. AGR/N9903 Maintain health & Safety at work place**

This unit is for the cultivator who is responsible for maintaining health and safety of self and others co-workers at workplace

- **Maintaining clean and efficient workplace:**

Undertake basic safety checks before operation of all machinery and vehicles and hazards are reported to the appropriate supervisor; work for which protective clothing or equipment is required is identified and the appropriate protective clothing or equipment is used in performing these duties in accordance with workplace policy; read and understand the hazards of use and contamination mentioned on the labels of pesticides/fumigants etc.; assess risks prior to performing manual handling jobs, and work according to currently recommended safe practice; use equipment and materials safely and correctly and return the same to designated storage when not in use; dispose of waste safely and correctly in a designated area; recognize risks to bystanders and take action to reduce risk associated with jobs in the workplace; perform your work in a manner which minimizes environmental damage all procedures and work instructions for controlling risk are followed closely; report any accidents, incidents or problems without delay to an appropriate person and take necessary immediate action to reduce further danger.

- **Render appropriate emergency procedures:**

Follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to emergency; follow emergency procedures to company standard / workplace requirements; use emergency equipment in accordance with manufacturers' specifications and workplace requirements; provide treatment appropriate to the patient's injuries in accordance with recognized first aid techniques; recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate; report details of first aid administered in accordance with workplace procedures.



**CSIR- National Botanical Research Institute**  
Rana Pratap Marg, Lucknow-226001



**Title of the Course: Gardener (ASCI Code AGR/Q0801)**

**NSDC-REGNo-**

**Centre ID.**

**Trainer Id.**

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Photograph  
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	Salutation (Mr. / Mrs. / Miss / Shri / Smt. Etc.)	First Name	Middle Name	Last Name
Candidate name				
Father's Name				
Mother's name				
Marital Status (Married/ Single)				
Date of Birth		Place of Birth (District)		
Aadhar Number				
Gender (M/F)				
Caste Category (SC/ST/OBC/General)				
Religion				
Permanent Address				
State		Pin Code		
Correspondence Address				
State		Pin Code		
Contact No.				
E-mail ID.				

Pre training Status	
Previous Experience	..... Years..... Month
Course Fee (Rs. 10,000/ 20,000)	
Fee Paid by Self/ Govt.Organization/ Others	
NEFT Receipt Number and Date	
Candidate Bank Name	
Candidate Bank Account Number	
Candidate Bank Branch Address	
Candidate Bank IFS Code	
Disability type, If applicable	
Annual Household Income	

**Educational Qualification (10th onwards):**

Exam. Passed	Board/University	Year	Div/%	Subject

\*The copy of receipt of fee paid and qualifying education certificate must be enclosed in the application form

Experience (if any):.....  
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Declaration:

I hereby declare that all the information's given above are true to the best of my knowledge and belief.

Place:

Date:

Signature of the candidate