

Model Curriculum for Recognition of Prior Learning (RPL)

Plant Nursery Associate

Sector: Agriculture

Sub Sector: Agriculture Crop Production

Occupation: Landscaping, Gardening & Urban Farming (Nursery
Workers and Gardeners, Other)

QP Code: AGR/Q0807

Version: 4.0

NSQF Level: 3

Plant Nursery Associate

CURRICULUM / SYLLABUS

This program is aimed at training to Recognition of Prior Learning (RPL) candidates for the job of a “Plant Nursery Associate”, in the “Agriculture” Sector/Industry and aims at building the following key competencies amongst the learners

Program Name	Plant Nursery Associate
Qualification Pack Name & Reference ID.	AGR/Q0807
Version No.	4.0
Pre-requisites to Training	Min. Educational Qualification: 10th or equivalent OR 8th grade pass with 3 years of relevant experience in Agriculture and allied sectors OR 5th grade pass with 6 years of relevant experience in Agriculture and allied sectors OR Previous NSQF level 2.5 with 1.5 year of relevant experience in Agriculture and allied sectors OR Previous NSQF level 2 with 3 year of relevant experience in Agriculture and allied sectors Age: 16 Years
Training Outcomes: Orientation and Soft Skill	After completing this programme, participants will be able to: • Identify personal strengths and value systems: safe work habits, achievement motivation, time management, anger management, stress management. • Prepare for employment and self-employment: preparing for an interview, effective resume writing, basic workplace terminology. • Illustrate the basics of entrepreneurship and identify new business opportunities • Develop personality and learn general ethics and discipline • Learn about health and safety hazards and hygiene at work place • Learn effective communication skills • Learn about importance of RPL certification and process of assessment

Training Outcomes: Bridge Course	After completing this programme, participants will be able to: • Demonstrate the process of maintaining, harvesting and transplanting seedlings. • Demonstrate the process of propagating the plants through different methods of propagation. • Describe various requirements to ensure the healthy growth of plants and flowers in the nursery. • Explain various practices regarding the maintenance of nursery infrastructure, tools and implements. • Explain the importance of following inclusive practices for all genders and PwD at work. • Demonstrate various practices to maintain personal hygiene, cleanliness and safety at work.
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Orientation and Soft Skill Details

Sr. No.	Module	Key Learning Outcomes	Equipment Required
A.	Orientation, General Discipline, doubts/gaps in Domain Training and Health and Safety		
1.	Orientation, General Discipline, doubts/gaps in Domain Training and Health and Safety Theory Duration (hh:mm) 06:00 Practical Duration (hh:mm) 00:00	• Domain Training (clarifying any doubts/gaps regarding Job Role) • Understanding Qualification Packs, NOS • Understanding about NSQF framework and applied level descriptors • Understand skill development ecosystem, roles of various stakeholders • Recognize the importance of general discipline in the classroom (dos and don'ts) • List expectations from the program • Outline the objectives of the RPL and importance of skill and certification • Identify risks to health and safety at the workplace and measures to be taken to control them	White Board, Marker, Laptop, projector,
B.	Soft Skills and Entrepreneurship Tips specific to the Job Role		
1.	Entrepreneurship Theory Duration (hh:mm) 02:00	• Discuss the concept and significance of entrepreneurship and the characteristics of an entrepreneur • List the traits of an effective team and team dynamics • Resolve problems by identifying important problem-solving traits • Discuss how to identify new business opportunities within your business • Follow the entrepreneurial process and explain the entrepreneurship ecosystem • Identify key schemes of the govt. and banks to promote entrepreneurship • Define the relationship between entrepreneurship and risk appetite and entrepreneurship and resilience • Importance of book keeping and accounts management. • Understand market dynamics and value chain of agri products. • Understanding formation of cooperatives, FPO, FPC and enterprise creation	Laptop, white board, marker and projector, SWOT activity: pen and paper individual exercise, charts, coloured pens, Group Activity: poster making on entrepreneurship ecosystem. Activity: SMART Goal writing

2	Personal Strengths and Value Systems Theory Duration (hh:mm) 01:00 Practical Duration (hh:mm) 00:00	• Self-Improvement, inculcate leadership qualities. • Importance of Discipline in managing small business. • Discuss how to maintain a positive attitude • List your strengths and weaknesses • Describe the importance of honesty in entrepreneurs • Discuss the benefits of time management and applied techniques • Apply tips for anger management and stress management • Effective interpersonal skills, listening and speaking skills.	Workbook exercises on health standards, Laptop, activity on strengths and weaknesses, white board, marker, projector
3	Preparing for Employment and Self-Employment Theory Duration (hh:mm) 01:00 Practical Duration (hh:mm) 00:00	• Follow the steps to prepare for an interview • Create an effective Resume • Conduct mock interviews • Identify the most frequently asked interview questions and how to answer them	Laptop, white board, marker, projector, sample CVs, Mock interviews, role plays, role play briefs, FAQs, quiz on basic workplace technologies.
C.	Familiarization with Assessment Process and Terms		
1	Familiarization with Assessment Process and Terms (hh:mm) 02:00	• Familiarization about assessment process • Understanding the need of assessment • Preparation tips for assessment • Doubt clearance session	
	Total Duration: Theory Duration (hh:mm) 12:00 Practical Duration (hh:mm) 00:00	Laptop, white board, marker and projector, SWOT activity: pen and paper individual exercise, charts, coloured pens, Group Activity: poster making on entrepreneurship ecosystem.Activity: SMART Goal writing	

Bridge Course Details

This course encompasses 05 out of 05 National Occupational Standards (NOS) of “Plant Nursery Associate” Qualification Pack issued by “Agriculture Skill Council of India”.

Module 1: Introduction to the role of a Nursery Worker

Bridge Module, Mapped to AGR/N0820 v2.0

Terminal Outcomes:

- State the role and responsibilities of a Nursery Worker.

Duration: 2:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Describe the size and scope of the agriculture industry and its sub-sectors. • Discuss the role and responsibilities of a Nursery Worker. • Discuss various employment opportunities for a Nursery Worker.	
Classroom Aids	
Training kit - Trainer guide, presentations, whiteboard, marker, projector, laptop, video films	
Tools, Equipment and Other Requirements	
NA	

Module 2: The process of maintaining, harvesting and transplanting seedlings and flowers

Mapped to AGR/N0820 v2.0

Terminal Outcomes:

- Describe the process of growing flowers in a nursery.
- Demonstrate the process of maintaining, harvesting and transplanting seedlings.

Duration: 06:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• List various materials, tools, implements and Personal Protective Equipment (PPE) required in nursery operations. • List different varieties of seasonal plants to grow from seeds. • Describe the process of procuring, sorting and storing seeds. • Describe the process of preparing the soil and fertilizer mixture, and poly bags/ containers/ germination bed for sowing seeds. • Describe the process of sowing seeds and maintaining their healthy growth. • Explain the importance of maintaining the recommended level of moisture and temperature to aid the germination of seeds. • Describe the process of harvesting and transplanting seedlings. • Describe the activities involved in harvesting and post-harvest processing of flowers.	• Demonstrate the use of relevant tools, implements and Personal Protective Equipment (PPE) in nursery operations. • Demonstrate the process of preparing the soil and fertilizer mixture, poly bags/ containers/ germination bed for sowing the seeds. • Show how to apply fertilizers and pesticides on seedlings. • Demonstrate the process of preparing sunken/ level/ raised nursery bed for transplanting seedlings. • Demonstrate the process of harvesting and transplanting seedlings. • Demonstrate the process of harvesting and processing flowers. • Prepare a sample record of seedlings raised, harvested and transplanted.
Classroom Aids	
Training kit (Trainer guide, Presentations). Whiteboard, Marker, projector, laptop	
Tools, Equipment and Other Requirements	
Different types of seeds, bulbs, plant seedlings, cuttings, trowel, rake, spade, jute balls, perforated poly bags, shade net, pots, water cans, hand cutter, long cutter knapsack sprayers, baskets, seedling trays, cocopeat, ladders, wheelbarrow, axe, seedling trays, hoe, broom, shears, hose pipes, sprinklers, Tags, paint, signboards, bamboo sticks	

Module 3: Propagation of plants through different methods

Mapped to ARG/N0840 v1.0

Terminal Outcomes:

- Describe the process of propagating plants through the cutting, root division, layering and budding methods.
- Demonstrate the activities involved in propagating plants through a variety of propagation methods.

Duration: 07:00	Duration: 09:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• List various tools and implements used in plant propagation methods. • Describe the process of propagating plants through a variety of propagation methods. • Explain the advantages of different plant propagation methods and their suitability to a variety of plants. • Explain the nutrition and disease management practices to be followed during the propagation of plants. • Explain the use of different types of fertilizers and pesticides.	• Demonstrate the use of various propagation tools and implements. • Demonstrate the process of propagating plants through a variety of propagation methods such as cutting, root division, layering, budding, etc. • Demonstrate the process of applying pesticides/ insecticides on plants using the appropriate PPE.
Classroom Aids	
Training kit (Trainer guide, Presentations). Whiteboard, Marker, projector, laptop	
Tools, Equipment and Other Requirements	
Conduit pipes, drain boards, GC fabric, working drawings: irrigation layout, electric lines layout, concept drawing etc.	

Module 4: Management of plant health and nursery operations

Mapped to AGR/N0821 v3.0

Terminal Outcomes:

- Explain the nutrient requirements of different types of plants.
- Describe various practices to protect the plants from pests and disease.
- Explain the benefits of resource optimisation.
- Explain the benefits of following inclusive practices for all genders and Persons with Disabilities (PwD) at work.

Duration: 06:00	Duration: 07:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Explain the nutrient requirements of varieties of plants during different stages of their growth. • Explain the benefits of using different types of growth mediums and plant growth regulators. • Explain the basic repair and maintenance needs of nursery tools, implements and infrastructure. • Explain the importance of following the relevant preventive practices to protect the plants from pests and diseases. • Discuss the benefits and methods of resource optimisation. • State the criteria for segregating waste into different categories. • Describe the process of recycling and disposing different types of waste. • Discuss the importance of following inclusive practices for all genders and PwD at work.	• Demonstrate the process of trimming and pruning different types of plants. • Show how to use different types of growth regulators on plants. • Demonstrate the process of carrying out basic repair and maintenance of the nursery infrastructure, tools and implements. • Demonstrate the process of examining the plants to identify pests and disease. • Prepare a sample record regarding the use of growth regulators, fertilizers and pesticides. • Show how to use water, electricity and other resources optimally. • Demonstrate the process of recycling and disposing different types of waste. • Demonstrate appropriate verbal and non-verbal communication that is respectful of genders and disability.
Classroom Aids	
Training kit (Trainer guide, Presentations)	
Tools, Equipment and Other Requirements	
Shovel, spade, trowel, rake, broom, hose pipe, sprinklers, pesticides, sprayers, long cutter, shears, cutters, axe, sickle, weeder, a pit for dry leaves, jute and PVC bags	

Module 5: Hygiene and cleanliness

Mapped to NOS AGR/N9903 v4.0

Terminal Outcomes:

- Discuss how to adhere to personal hygiene practices.
- Demonstrate ways to ensure cleanliness around the workplace.

Duration: 00:30	Duration: 00:30
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
• Explain the requirements of personal health, hygiene and fitness at work. • Describe common health-related guidelines laid down by the organizations/ Government at the workplace. • Explain the importance of good housekeeping at the workplace. • Explain the importance of informing the designated authority on personal health issues related to injuries and infectious diseases.	• Demonstrate personal hygiene practices to be followed at the workplace. • Demonstrate the correct way of washing hands using soap and water, and alcohol-based hand rubs. • Demonstrate the steps to follow to put on and take off a mask safely. • Show how to sanitize and disinfect one's work area regularly. • Demonstrate adherence to the workplace sanitization norms. • Show how to ensure cleanliness of the work area.
Classroom Aids:	
Computer, Projection Equipment, PowerPoint Presentation and software, Facilitator's Guide, Participant's Handbook.	
Tools, Equipment and Other Requirements	
Personal Protective Equipment, cleaning equipment and materials, sanitizer, soap, mask	

Total Duration: Theory Duration: (hh:mm): 21:30 Practical Duration: (hh:mm): 26:30 Grand Total Bridge Course Duration: (hh:mm): 48:00	Unique equipment required: Planters/Vases, Plant/crop sample of different types, Face Masks, Polythene Sheet, Sprayer, Video Recording Equipment, Khurpi, Hose Pipe, Sprinkler, Garden Rake, Watering Can, Hand trolley, Empty Pots, Secateur, Hand Gloves, Gumboots, Spade
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Grand Total Course Duration: 12 (Orientation session) + 48 (Bridge Course) = 60 Hours, 0 Minutes