

Model Curriculum for Recognition of Prior Learning (RPL)

Vermicompost Producer

SECTOR: AGRICULTURE

SUB-SECTOR: AGRICULTURE CROP PRODUCTION

OCCUPATION: FARM MANAGEMENT

REF ID: AGR/Q1203

VERSION: 3.0

NSQF LEVEL: 3

Vermicompost Producer

CURRICULUM / SYLLABUS

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

Program Name	Vermicompost Producer		
Qualification Pack Name & Reference ID.	AGR/Q1203		
Version No.	3.0	Version Update Date	
Pre-requisites to Training	<ul style="list-style-type: none"> • Grade 10 OR • Grade 8 with two years of (NTC/ NAC) after 8th OR • Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR • 8th grade pass with 2-year relevant experience OR • 5th grade pass with 5-year relevant experience OR • Previous relevant Qualification of NSQF Level 2 with 1-year relevant experience OR • Previous relevant Qualification of NSQF Level 2.5 with 6 months’ relevant experience <p>Minimum Age: 17 Years</p>		
Training Outcomes: Orientation and Soft Skill	<p>After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> • 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 workplace • 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: <ul style="list-style-type: none">• Identify and arrange resources/ inputs for vermicompost unit: correct species of earthworm, site location for vermibed etc.• Undertake good quality vermicompost production using appropriate techniques: preparation of vermibed, ensure proper environmental conditions, control predators, harvest vermicompost, vermiwash and earthworms• Undertake basic entrepreneurial activities for small vermicompost unit: arrangement of finance, pooling of resources, market linkages etc.• Practice health and safety at the work place: Well versed with health and safety measures in terms of personal as well as others' safety
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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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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, colour 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 6 out of 6 National Occupational Standards (NOS) of “Vermicompost Producer” Qualification Pack issued by “Agriculture Skill Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p>Introduction to the role of a Vermicompost Producer</p> <p>Theory Duration (hh:mm) 01:00</p> <p>Practical Duration (hh:mm) 00:00</p> <p>Corresponding NOS Code</p>	<ul style="list-style-type: none"> • Explain the scope and importance of organic farming in India and market demand for vermicompost • Explain the roles and responsibilities of a Vermicompost Producer and their career progression • Discuss about type of earthworm used for vermicomposting and their multiplication methods 	White Board, Marker, Laptop, projector
2	<p>Identification and selection of appropriate site for preparation of vermicompost bed</p> <p>Theory Duration (hh:mm) 04:00</p> <p>Practical Duration (hh:mm) 05:00</p> <p>Corresponding NOS Code AGR/N1212</p>	<ul style="list-style-type: none"> • Discuss requirements for vermicomposting as per standard like-Basic raw material source and their procurement, Selection of suitable earthworm, Starter, Site selection, containers for vermicompost production, thatched roof/vermished etc. • Discuss different types of vermicomposting methods • Explain benefits of vermicompost and vermishash in enhancing the soil properties • Demonstrate construction and preparation of vermicompost unit and vermibed as per the specifications • Discuss various types of vermibeds along with their specifications and their preparation techniques • Explain importance of maintaining correct proportion of substrates and time required for decomposition in a composting unit • Apply proper coverage and appropriate moisture level • Segregate and dispose waste as per SOP 	Gunny Bag, Plastic Sheet, Shovels, Spades, Crowbars, Iron Baskets, Dung Fork, Buckets, Bamboo Baskets, Trowel, Plumbing and Fitting Tools, Power Operated Shredder, Sieving Machine with Wire Mesh Sieves, Culture Trays (Plastic), Wheel Barrows, Water Pumps with Pipe/ Dripper

3	<p>Inoculation of earthworms and management of vermicomposting process</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 08:00</p> <p>Corresponding NOS Code AGR/N1213</p>	<ul style="list-style-type: none"> • Explain favorable conditions for earth worm culture in the composting material • Explain application of vermicompost for different crops and advantages of vermicompost over other kinds of composts. • Discuss techniques of earthworm inoculations, feed management and watering methods. • Demonstrate process of inoculation of earthworm and maintaining optimal conditions as per standard • Demonstrate methods of maintaining moisture and aeration in the vermibed • Explain morphology and anatomy of earthworm and identification of suitable variety of earthworm by their characteristics for vermicomposting • List the species of earthworms yielding high quality Vermicompost • Describe method of preparation ,collection and storage of vermiwash and their use • Explain soil health improvement and crop productivity enhancement by application of vermicompost and vermiwash • Discuss appropriate pest control management in Vermicompost unit 	<p>Earthworms, Plastic Sheet, Shovels, Spades, Crowbars, Iron Baskets, Dung Fork, Buckets, Bamboo Baskets, Trowel, Power Operated Shredder, Sieving Machine with Wire Mesh Sieves, Culture Trays (Plastic), Water Pumps with Pipe/ Dripper</p>
4	<p>Harvesting of vermicompost</p> <p>Theory Duration (hh:mm) 06:00</p> <p>Practical Duration (hh:mm) 08:00</p> <p>Corresponding NOS Code AGR/N1214</p>	<ul style="list-style-type: none"> • Discuss methods of earthworm harvesting • Discuss commonly faced problem in vermicomposting • Explain procedure of collection and storing and packing of vermicompost. • Discuss principle of Vermiwash preparation and their method of application. • Demonstrate how to assess the maturity of vermicompost and harvesting. • Show harvesting of mature vermicompost at appropriate stage using appropriate methods viz. tub method, container etc. • Show how to harvest earthworms by appropriate technique- trapping method, sieving method, manual method, self-harvesting method etc. • Collect worms in containers, weigh, sort, grade, transfer in ready bed or prepare for sale 	<p>Shovels, Spades, Crowbars, Iron Baskets, Dung Fork, Buckets, Bamboo Baskets, Trowel, Weighing Scale, Weighing Machine (Platform Type), Gunny Bags, Bag Sealing Machine, Culture Trays (Plastic), Wheel Barrows</p>

5	Basic entrepreneurial activities for small enterprise Theory Duration (hh:mm) 04:00 Practical Duration (hh:mm) 02:00 Corresponding NOS Code AGR/N9908	<ul style="list-style-type: none"> • Explain how to analyse the demand and supply of the Vermicompost/vermiwash in the market • Describe the process of identifying the target customers and assess their needs and expectations with respect to the quality and price of the produce. • State the appropriate sources of funding for the agricultural entrepreneurship/ businesses • State the relevant government schemes and programs • State the recommended practices to be followed for efficient input resource management. • Demonstrate how to analyse the demand and supply of the relevant agricultural produce in the market. • Demonstrate how to calculate the costs incurred and determine the price of the product for profitability. 	Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop
6	Hygiene and cleanliness, Safety and emergency procedures Theory Duration (hh:mm) 01:00 Practical Duration (hh:mm) 01:00 Corresponding NOS Code AGR/N9903	<ul style="list-style-type: none"> • Explain the requirements of personal health, hygiene and fitness at work. • Demonstrate the correct way of washing hands using soap and water, and alcohol-based hand rubs. • Describe the hazards caused due to chemicals/pesticides/fumigants. • Demonstrate emergency procedures to the given workplace requirements. 	Personal Protective Equipment, Cleaning Equipment and Materials, Sanitizer, Soap, Mask
7	Employability Skills Theory Duration (hh:mm) 02:00 Practical Duration (hh:mm) 00:00 Corresponding NOS Code DGT/VSQ/N0102	Entrepreneurship <ul style="list-style-type: none"> • Explain the types of entrepreneurship and enterprises • Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan • Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement • Create a sample business plan, for the selected business opportunity. 	
	Total Duration: Theory Duration (hh:mm) 24:00 Practical Duration (hh:mm) 24:00 Grand Total Bridge Course Duration: (hh:mm) 48:00	Unique Equipment Required: Cow Dung, Earthworm of correct species, Shovel, Crow bar, dung fork, Spade, Wire mesh sieves, bamboo baskets, trowel, buckets, Culture trays (Plastic), Iron baskets, Weighing machine (Platform type), Wheel Barrows, Water source- Any, Video Recording Equipment, Rubber gloves	

Grand Total Course Duration: 12 (Orientation session) + 48 (Bridge Course) = 60 Hours, 0 Minutes
 RPL- Vermicompost Producer