



National Academy of RUDSETI

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QUALIFICATION FILE – Standalone NOS

Essentials of Vegetable Farming and Nursery Management

☒ Horizontal/Generic ☐ Vertical/Specialization

☒ Upskilling ☐ Dual/Flexi Qualification ☐ For ToT ☐ For ToA

☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills

NCrF/NSQF Level: 2

Submitted By:

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Table of Contents

Section 1: Basic Details 3

Section 2: Training Related..... 5

Section 3: Assessment Related..... 5

Section 4: Evidence of the Need for the Standalone NOS..... 6

Section 5: Annexure & Supporting Documents Check List..... 6

 Annexure: Evidence of Level 7

 Annexure: Industry Validations Summary 10

 Annexure: Training Details 12

 Annexure: Blended Learning 13

 Annexure: Standalone NOS- Performance Criteria details..... 13

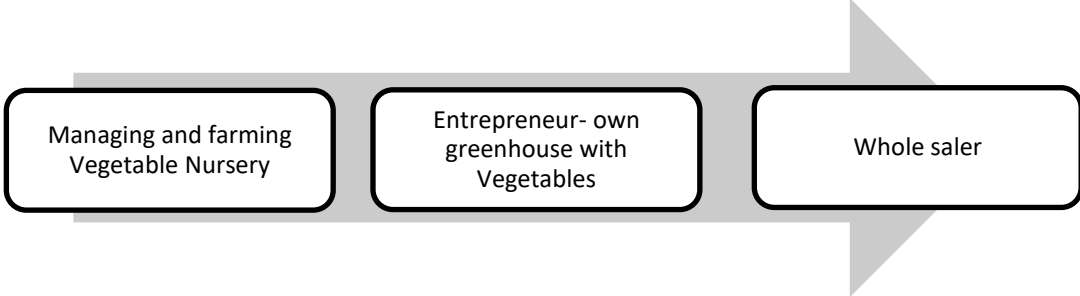
 Annexure: Assessment Criteria 17

 Annexure: Assessment Strategy 20

 Annexure: Acronym and Glossary 22

Section 1: Basic Details

1.	NOS-Qualification Name	Essentials of Vegetable Farming and Nursery Management										
2.	Sector/s	Sector: Agriculture Sub sector: Agriculture Crop Production										
3.	Type of Qualification ☐ New ☒ Revised	NQR Code & version of the existing /previous qualification: <i>(change to previous, once approved)</i>	Qualification Name of the existing/previous version: <i>(✓previous, once approved)</i> Vegetable Nursery Management and farming REVISED WITH CHANGES									
4.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval.)</i>	NG-02-AG-03716-2025-V2-RUDSETI	5. NCrF/NSQF Level:2									
6.	Brief Description of the Standalone NOS	This program aims to foster self-employment opportunities in the field of Vegetable Nursery Management and farming. By empowering rural youth with the necessary skills and knowledge, this program entitles them to build a fruitful business model in Vegetable Nursery Management and farming.										
7.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Relevant Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Ability to read and write</td> <td>No Experience required.</td> </tr> <tr> <td>2.</td> <td>Previous relevant Qualification of NSQF Level 1</td> <td>No Experience required.</td> </tr> </tbody> </table> b. Age 18		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1.	Ability to read and write	No Experience required.	2.	Previous relevant Qualification of NSQF Level 1	No Experience required.
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)										
1.	Ability to read and write	No Experience required.										
2.	Previous relevant Qualification of NSQF Level 1	No Experience required.										
8.	Credits Assigned to this NOS-Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	3	9. Common Cost Norm Category (I/II/III) <i>(wherever applicable): II</i>									
10.	Any Licensing Requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	NA										

11.	Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	☒ Offline Only ☐ Online Only ☐ Blended <table border="1" data-bbox="929 255 1612 438"> <thead> <tr> <th>Training Delivery Mode</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>25</td> <td>65</td> <td>90</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <i>(Refer Blended Learning Annexure for details)</i>	Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	25	65	90	Online			
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)											
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Online														
12.	Assessment Criteria	<table border="1" data-bbox="929 555 1881 667"> <thead> <tr> <th>Theory (Marks)</th> <th>Practical (Marks)</th> <th>Project (Marks)</th> <th>Viva (Marks)</th> <th>Total (Marks)</th> <th>Passing %age</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>70</td> <td></td> <td>30</td> <td>200</td> <td>50%</td> </tr> </tbody> </table>	Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age	100	70		30	200	50%
Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age									
100	70		30	200	50%									
13.	Is the NOS Amenable to Persons with Disability	☒ Yes ☐ No If “Yes”, specify applicable type of Disability: Deaf and mute, People with minor physical disability												
14.	Progression Path After Attaining the Qualification, wherever applicable <i>(Please show Professional and Academic progression)</i>													
15.	How participation of women will be encouraged?	Women's participation can be increased by raise awareness about self-employment and entrepreneurship, provide practical training in key areas such as marketing strategies, project report preparation, and also the process of obtaining financial assistance from banks. By equipping women with both knowledge and skills, we empower them to pursue entrepreneurial endeavors confidently, contributing to their economic independence and societal advancement.												
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	<i>(Please provide assurance and plan for developing the qualification in other Indian Languages as per training requirement)</i> Hindi												

17.	Is similar NOS available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:	
18.	Name and Contact Details Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Raju N Kori Director General Tel number(s): 8217689412 Email: dg@rudsetacademy.org Website: https://www.rudsetacademy.org/ Contact No.: 8217689412	
19.	Final Approval Date by NSQC:	20. Validity Duration:3 Years from the date of approval	21. Next Review Date: 18 th Feb 2028

Section 2: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	At least Two NCrF /NSQF level up subject to a minimum of 3.0 Minimum 2 years of industry or training experience (post qualification) in the relevant domain (with at least 50% of such experience as industry experience)
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	Any certified trainer after 5 years of training experience post ToT certification gets eligible to become Master Trainer in the same domain subject to up-skilling and assessment.
3.	Tools and Equipment Required for the Training	☒ Yes ☐ No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised NOS, details of Any Upskilling Required for Trainer	Regular Tot will serve the purpose

Section 3: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	At Least one NCrF/ NSQF level up with min 2 years of relevant exp. Ideally having digital skills and also the platform knowledge
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines), (wherever applicable)	Graduation with min 2 years of relevant exp. Ideally having digital skills and also the platform knowledge
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Master/Lead assessors should be at minimum level 5.5 (i.e., Graduate and above) with 10 years of relevant experience (i.e. Industry/ Academia/ Assessor etc.)

4.	Assessment Mode (<i>Specify the assessment mode</i>)	Mode: ☐ Online Only ☐ Offline Only ☒ Blended
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☒ Yes ☐ No (<i>details to be provided in Annexure-if it is different for Assessment</i>)

Section 4: Evidence of the Need for the Standalone NOS

Provide Annexure/Supporting documents name.

1.	Government /Industry initiatives/ requirement (Yes✓/No): Yes, RSETIs are run and managed by concerned Lead District NARs and are supported by the States and the MoRD, Govt. of India. We have conducted govt projects like Day NULM, PMEGP etc.
2.	Number of Industry validation provided: 26
3.	Estimated number of people to be trained: 18,461 for the upcoming 3 years
4.	Evidence of Concurrence/Consultation with Line/State Departments (In case of regulated sectors): (Yes/No): yes MORD If “No”, why: Ministry of Rural Development, Govt. of India (MoRD) has promoted Rural Self Employment Training Institutes (RSETIs). RSETIs have been initiated in 2009, with a mandate to mitigate problem of unemployment among rural youth by providing them short duration skill development trainings, RSETIs are run and managed by concerned Lead District NARs and are supported by the States and the MoRD, Govt. of India

Section 5: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf/NSQF descriptors (<i>Mandatory</i>)	Annexure I
2.	Annexure: List of tools and equipment relevant for NOS (<i>Mandatory, except in case of online course</i>)	Annexure II
3.	Annexure: Performance and Assessment Criteria (<i>Mandatory</i>)	Annexure III
4.	Annexure: Assessment Strategy (<i>Mandatory</i>)	Annexure: IV
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is Blended Learning</i>)	
6.	Annexure: Acronym and Glossary (<i>Optional</i>)	
7.	Annexure/Supporting Document: Standalone NOS- Performance Criteria Details	

	Annexure/Document with PC-wise detailing as per NOS format (Mandatory- Public view)	Annexure: V
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	Annexure: VI

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional theoretical knowledge	- The ability to apply operational knowledge in the area of work. - The basic ability to understand the raw materials, tools, applications. - A basic understanding of seed/ seedling consumption, finished product/ service, management and maintenance and knowledge about local market and managing expenses. - Possess the knowledge of farming, selection of crops and varieties according to agroclimatic region, design and construction of a nursery, fertigation, watering, seed production and operation and management. - The ability to identify potential quality issues with the and find solutions based on the analysis. - Able to understand and perform repetitive tasks related to Vegetable Nursery Management and farming, under instructions and supervision. The ability to identify required quality in the work, potential quality flaws, general hygiene and environmental aspects.	- Understands basic materials, tools, applications. - Basic knowledge of business activity, raw material, finished product/ service and also marketing. - Able to understand and perform repetitive tasks in the Vegetable Nursery Management and farming under instructions and supervision. - Apply Practice safe working procedures, basic quality, safety and general hygiene - Norms, environmental aspects during routine tasks with limited discretion. So, the role qualifies for the level 2.	2
Professional and Technical Skills/Expertise	- The Vegetable Nursery Management and farming is expected to apply limited finite skills. - Performs arranged tasks in a limited range of functional roles. - Students learn to find out suitable soil types like loam for vegetable growth, recognizing soils unsuitable for farming. They grasp the importance of timing in seeding, applying pretreatments for enhanced germination. Techniques for meticulous seed bed preparation are acquired, along with methods for seedling transplant	The job holder is expected to apply the known skill that are routine and repetitive in a narrow range of applications, using quality crops, various crops and vegetable, Vegetable Nursery Management and farming works and finishing. Since all the above-mentioned professional skills are related to	2

	readiness. • Sterilization protocols are understood for maintaining seed bed hygiene, while potting mixtures are formulated for optimal plant development. They also discover the effectiveness of pro trays in commercial nursery management for vegetable seed production. • Perform the selection of raw materials and designs, choosing color combinations, applying ornamentation works within a defined context. Identify and apply the relevant tools and equipment in a limited context of work and quality. Apply the known skill for farming and quality and maintenance of the nursery as well as the service & marketing etc.	demonstrating a limited practical skill within a known issues the job role can be placed at Level 2.	
Aptitude, mind-set, soft skills, employment readiness & entrepreneurship skills:	• The job holder is expected to have basic numeracy and literacy so that receive and transmit written and oral messages/ communication clearly. • It focuses on safety, hygiene and environment, social, political and religious diversity, Financial and Digital literacy, Aadhar and Mobile, digital payments etc. • The Vegetable Nursery Management and farming should have the basic entrepreneurial Skills and an entrepreneurial mind-set for running mini ventures.	In Vegetable Nursery Management and farming, Job holders not only develop technical expertise but also foster a holistic skill set and mindset. This includes prioritizing safety, hygiene, and environmental consciousness, navigating social, political, and religious diversity. Moreover, they cultivate proficiency in financial and digital literacy, embracing concepts like Aadhar and mobile usage, digital payments, and honing entrepreneurial skills alongside fostering an entrepreneurial mindset. These elements contribute to achieving success in the field of Vegetable Nursery Management and farming. Therefore, the job role can be placed at Level 2.	2
Broad Learning Outcomes	• The job in Vegetable Nursery Management and farming involves job requiring limited range of routine and predictable activities mostly performed under instructions and supervision. • Micro-entrepreneurs are expected to perform, both predefined and new also need to aware of the process and delivery. • He/she should understand basic safety and general hygiene norms. • He/she should understand the sustainable disposal of waste from garden and its maintenance. • The entrepreneur must understand the factors influencing the size of the nursery, location. As well as the operation and management of a nursery. • The job in Vegetable Nursery Management and farming involves	The candidate may carry out a job requiring limited range of routine and predictable activities mostly performed under instructions and supervision. Therefore, the job role can be placed at Level 2.	2

	performing predefined tasks, which can include routine and repetitive activities. • Being an assistant, he/she mostly works under supervision with limited responsibility for delivery and quality of work. • In the case of micro- entrepreneurs, responsibility of production and marketing is necessary.		
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List of Tools and Equipment

Batch Size: 35

S. No.	Tool / Equipment Name	Quantity for specified Batch size
1.	Bamboo (long)	15 Nos
2.	Plastic sheet for poly house	3m x 5-6m
3.	Tight string	1 kg
4.	Vermi compost	10 kg
5.	Cow dung	20 kg
6.	Wood plank	12-inch 1m x 2m
7.	Sand	30- 40 kg
8.	Saw dust or cocopeat	5-10 kg
9.	Saw	1
10.	Hammer	1
11.	Nail and nail puller	As per req
12.	Rake	2
13.	Vegetable seeds seed, seedling	As per req
14.	Jute bag and required seeds	As per req
15.	Trowel	5
16.	Shaded net	As per req
17.	Pruning shears	1
18.	Spray bottle	1
19.	Poly bags	100 nos

20.	Plant materials (cuttings)	1 bottle
21.	Gardening forks	5
22.	Watering cans	3
23.	Sprayers (for pesticides or organic solutions)	2
24.	Organic fertilizers and manures	As per requirement
25.	Soil testing kits	1
26.	Pesticides and fungicides	As per requirement

Classroom Aids:

The aids required to conduct sessions in the classroom are:

1. White-Board/Smart Board
2. Marker/Pen
3. Duster
4. First-aid box/kit
5. Fire Extinguisher
6. Internet wireless Connection

Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.	Green Star Nursery	Shyamlal Prajapti	Proprietor	Govindpur, Near DDps School	9540025377	Not Available	Not Available
2.	Vegetable Nursery	Arati Das	Proprietor	Haturia , P.O- Analberia , Dis Purba Medinipur, West Bengal , India -721444	7602947541	Not Available	Not Available
3.	Vegetable Nursery	Debkumar Shit	Proprietor	Vill - Sinyari , P.O- Bamanbarh , Dist-Purba Medinipur, West Bengal, India -721444	9647962764	Not Available	Not Available
4.	Vegetable Nursery	Debnarayan	Proprietor	Vill- Agrania P.O Kalsi,	7872118189	Not Available	Not Available

		Bhunja		Dist-Purba Medinipur, West Bengal, India -721456			
5.	Nursery	SKSahed	Proprietor	Basantia,Midnapore, Purba W. B	8918743637	Uddinsahed1996@ gail.com	
6.	Vegetable Nursery	Mijila sangma	Proprietor	Pechuva,West Gara hills,Meghalaya	6009626866	Not Available	Not Available
7.	Vegetable Nursery	Somera CH Marak		Damalgre,South west,Meghalaya	936614340	Not Available	Not Available
8.	Vegetable Nursery	Madan Mishra	Proprietor	Vill+ P.O Argoal, Dist-Purba Medinipur, West Bengal, India -721456	8910645687	Not Available	Not Available
9.	Nursery	Papi Maity	Proprietor	Vill + P.O Manikjor, Dist- Purba Medinipur, West Bengal, India -721444	8371838766	Not Available	Not Available
10.	Vegetable Nursery	Ranjit Sasmal	Proprietor	Sinyari P.O Bamanbarh, Dist- Purba Medinipur, West Bengal , India - 721444	9593238128	Not Available	Not Available
11.	Nursery	Sukhendra	Proprietor	Manpura, Jaithra, Etah - UP	8010179884	Not Available	Not Available
12.	Agri Farming	Susha singh Choudhari	Proprietor	One Stop Shop Agri Junction Centre, Majhauwa Khurd Block, Saltauwa Basti	7500125520	Not Available	Not Available
13.	Spendra Kumar Nursery	Spendra Kumar	Proprietor	Vill Soojapur Post Rui Sinaura Mainpuri UP, 205262	7351422325	Not Available	Not Available
14.	Jyoti Nursery	Jyoti kashyap	Proprietor	Village: Habibpur Nangla, Pilana, Baghpat.	9818719240	Not Available	Not Available
15.	Nursery	Ram Autar Singh	Proprietor	Vill- Bhadaura Post Rui Sinaura Mainpuri UP, 205262	9720427691	Not Available	Not Available
16.	Sri Laxmi	Amal Chandra		Vill- Purbo Chakbhan P.O-			

	Vermicompost	Mahato	Proprietor	Chingispur P.S- Balurghat Dist.- Dakshin Dinajpur Pin- 733145	8016307839	Not Available	Not Available
17.	Sinha Sabji nursery	Kush k sinha	Proprietor	Kanwar, Chhatisgarh, District: Durg, 491227	9754218030	Kushkumarsinha19 75@gmail.com	Not Available
18.	Thakur Sabji farm	S S Thakur	Proprietor	Kanwar, Chhatisgarh, District: Durg, 491227	9752113610	Not Available	Not Available
19.	Pooran Nursery & Garden	Pooran Singh	Proprietor	Gram & Post Aligrah Mohaddipur Dist. Farrukhabad (U.P) 209601	9936634380	Not Available	Not Available
20.	Kisan Agro Food Product	Manish Jat	Proprietor	Sangrampur, Kheroda, Udaipur, Rajasthan	9887377342	Not Available	Not Available
21.	Dean	Prof.S.R.Maloo	Proprietor	Dean and Chairman, Faculty of Agriculture, Pacific University, Udaipur	9414169710	Shivratan.malpp@y ahoo.com	Not Available
22.	Monu Nursery	Monu Mathur	Proprietor	Vijay Nagar Colony Budaun	9219194419	Not Available	Not Available
23.	Nursery	Naresh kumar	Proprietor	Vijay Nagar Colony Budaun		Not Available	Not Available
24.	Nursery	Niranjan Mahato	Proprietor	AT.Dhokra Baniya Tola,PO Domdarpur Dhanbad	8409794580	Not Available	Not Available
25.	Nursery	Birendra	Proprietor	AT.Dhokra Baniya Tola,PO Domdarpur Dhanbad	7870761025	Not Available	Not Available
26.	Nursery	Manjit	Proprietor	AT.Dhokra Baniya Tola,PO Domdarpur Dhanbad	6205934292	Not Available	Not Available

Annexure: Training Details

Training Projections:

Data to be provided year-wise for next 3 years.

Training Projections:

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2025-2026	6,500	4000	
2026-2027	6,500	4000	
2027-2028	6,500	4000	

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the NOS	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge		
2	☐ Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners		
3	☐ Showing Practical Demonstrations to the learners		
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐ Tutorials/ Assignments/ Drill/ Practice		
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐ On the Job Training (OJT)/ Project Work Internship/ Candidate Training		

Annexure: Standalone NOS- Performance Criteria details

Description:

This National Occupational Standard (NOS) outlines the Performance Criteria, Knowledge & Understanding, and Skills & Abilities required to become a farmer or an entrepreneur in the field of Vegetable Nursery Management and farming. It covers entrepreneurship skills, while emphasizing the importance of managing health and safety, sustainability, and inclusivity throughout the work.

1. Scope:

The scope covers the following:

- Achieve personal and entrepreneurial skills.
- Identify business opportunities and Business plan, sell the output.

- Apply knowledge of tools and equipment to handle, raw materials sourcing and marketing.
- Start a small business enterprise by contacting with companies or clients.
- Setting up a shop and effectively manage it.
- Comprehensive understanding of nursery management, vegetable nursery history, scope, importance, and commercial farming.
- Describe different types of nurseries, site preparation, operation, maintenance, and materials for shade net and poly house.
- Gain and apply knowledge in crop selection, seed varieties, nutrient requirements, pest management, and terrace gardening.
- Explain fertigation techniques, water management, balanced nutrition, organic farming, vermi composting, and propagation house advantages.
- Utilize specialized tools and equipment for integrated pest management, disease control, harvesting, storage, quality maintenance, marketing, and environmental sustainability.

2. Elements and Performance Criteria

Entrepreneurship

To be competent, the user/individual on the job must be able to:

PC1 Discuss the importance of entrepreneurial skills and entrepreneurial competencies in meeting the requirements in the field of Vegetable Nursery Management and farming.

PC2 Apply personal Skills to become a successful entrepreneur.

PC3 Identify Entrepreneurial Competencies

PC4 Goal setting and identify the risks in the entrepreneurship

PC5 Maintain a team by proper communication and behave properly to all especially towards all the genders and PwD

Business and marketing Management

PC6 Explain various Deposit Schemes and other services of banks

PC7 Marketing Management and Customer Service Excellence

PC8 Management of Costing, Pricing and working capital for a business plan

PC9 Maintain Various types of records in a small enterprise including the Cash Book, General Ledger, etc.

PC10 Recognize the importance of conducting market surveys to gather insights about customer inclination and analyze the survey reports.

PC11 Step wise process of a Business Plan preparation

PC12 Assess the entrepreneurial Competencies by interacting with the successful Entrepreneurs of the same field.

Launching Formalities

PC13 Follow the steps in launching of an enterprise Trade License from Panchayath/Municipal agencies, Formalities for obtaining PAN Card, TAN, Service Tax & VAT Registration.

PC14 Explore financial support/loans from various government sources by submitting a project report.

PC15 Obtain license and registration for the enterprise.

PC16 Establish a micro-enterprise.

OHS, inclusivity and sustainability

Pc17 Apply health and safety practices in the workplace.

PC18 Ensure inclusivity OF all genders and PwD

PC19 Identify potential threats and avoid it.

PC20 Follow Health and safety regulations relevant to the work place.

PC21 Follow proper handling of materials, tools, equipment to adapt environmentally friendly processes.

PC22 Follow Green Practices for work place.

PC23 Follow Ergonomics practices in maintain health also follow Proper posture while working for injury prevention

PC24 Apply Waste management policies by applying 3R principle

Scope and opportunities

PC25 Define the concept of a nursery and its importance in vegetable farming.

PC27 Describe the process and benefits of terrace gardening for vegetable production

PC28 Differentiate between various types of nurseries used for vegetable production

PC29 Establish a vegetable nursery, considering factors like size, location, and site preparation.

Demonstration

PC30 Demonstrate proper techniques for nursery operation and maintenance.

PC31 Identify materials and equipment required to set up a shade net house or polyhouse

PC32 Explain the advantages and economic viability of using protected structures for vegetable nursery management

PC33 Select appropriate soil types for successful vegetable farming for herbs, leafy veggies, common vegetables etc.

PC34 Pretreat seeds with suitable cultures to enhance germination of common vegetables.

PC35 Prepare seedbeds and demonstrate techniques for raising seedlings for transplanting for various herbs, leafy veggies, common vegetables etc.

PC36 Explain the process of sterilizing seedbeds and preparing potting mixtures.

PC37 Demonstrate the use of pro-trays for efficient nursery management.

PC38 Implement a fertigation system for balanced nutrient delivery in vegetable farming.

PC39 Calculate appropriate fertilizer doses for fertigation to ensure balanced plant nutrition.
PC40 Discuss the advantages of fertigation, including water saving, yield increase, and profit improvement.
PC41 Identify and utilize suitable fertilizers and equipment for fertigation systems.
PC42 Explain the advantages of different irrigation methods like drip and sprinkler systems.
PC43 Define organic farming and explain its key advantages.
PC44 Apply the process of vermicomposting and the types of worms used.
PC45 Differentiate traditional composting and vermicomposting
PC46 Construct a propagation house using appropriate materials and methods.
PC47 Implement integrated pest management (IPM) strategies for vegetable farming.
PC48 Explain the benefits of using trap crops, light traps, and bio-control agents for pest control.
PC49 Demonstrate proper harvesting techniques and storage methods for vegetables

Evaluation

PC50 Maintain vegetable quality through appropriate post-harvest handling practices.
PC51 Explain key marketing practices for vegetables, including labeling.
PC52 Apply environmental sustainability considerations in vegetable production and marketing.

3. Knowledge and Understanding (KU):

The individual on the job needs to know and understand:

KU1 Importance of job skills and entrepreneurial qualities
KU2 Characteristics of successful entrepreneurs, advantages of self-employment, goal setting, risk identification.
KU3 Business Management
KU4 Marketing Management
KU5 Business plan development (resource mobilization, profitability), government support schemes.
KU6 Safe work practices, accident prevention
KU7 Greening/sustainability principles
KU8 Nursery Management definition, types, site preparation, operation, maintenance
KU9 Crop Selection and Soil suitable vegetables, seed varieties, nutrient and pest management, soil types
KU10 Nursery Establishment and Structures setting up nursery, shade net, poly house, economic viability
KU11 Fertigation and Organic Farming water management, balanced nutrition, vermi composting, propagation house
KU12 Pest and Post-Harvest Management integrated pest control, harvesting, storage, quality maintenance, marketing

Generic Skills (GS):

User/individual on the job needs to know how to:

GS1 Conveying ideas effectively to others.

GS2 Identifying challenges in farming, business & entrepreneurship, developing and finding solutions.

GS3 Analyzing information from market research & business plans to make informed decisions.

GS3 Collaborating with peers during group discussions and practical sessions.

GS4 Self-Management Skills

GS5 Actively participation and learning

Annexure: Assessment Criteria

Detailed learning outcomes and assessment criteria for the qualification are as follows:

SI No	NOS	Module
1.	NAR/N3043	Module 1: Building Entrepreneurial Skills for career Success
2.		Module 2: Promote a secure sustainable and inclusive workplace by focusing on health & safety, Gender & PWD Awareness and green practices
3.		Module 3: Maximize Your Earnings with Efficient Practices in Vegetable Nursery Management & farming.

PC	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC 1	Discuss the importance of entrepreneurial competencies in meeting the job requirements in the field of Vegetable Nursery Management and farming.				1
PC 2	Apply personal Skills to become a successful entrepreneur.	4			2
PC 3	Identify Entrepreneurial Competencies	4			
PC 4	Goal setting and identify the risks in the entrepreneurship	2			2
PC 5	Maintain a team by proper communication and behave properly to all especially towards all the genders and PwD	2			2

PC 6	Explain various Deposit Schemes and other services of banks	2			2
PC 7	Marketing Management and Customer Service Excellence	2			2
PC 8	Management of Costing, Pricing and working capital for a business plan	2			2
PC 9	Maintain Various types of records in a small enterprise including the Cash Book, General Ledger, etc.	2			2
PC 10	Recognize the importance of conducting market surveys to gather insights about customer inclination and analyze the survey reports.	2			2
PC 11	Step wise process of a Business Plan preparation	2			
PC 12	Assess the entrepreneurial Competencies by interacting with the successful Entrepreneurs of the same field.				
PC 13	Follow the steps in launching of an enterprise Trade License from Panchayath/Municipal agencies, Formalities for obtaining PAN Card, TAN, Service Tax & VAT Registration.	2			3
PC 14	Explore financial support/loans from various government sources by submitting a project report.				2
PC 15	Obtain licensing and registration for the enterprise.	2			2
PC 16	Establish a micro-enterprise.	2			
PC 17	Apply health and safety practices in the workplace.	4			
PC 18	Ensure inclusivity OF all genders and PwD	2	1		1
PC 19	Identify potential threats and avoid it.	4	1		
PC 20	Follow Health and safety regulations relevant to the work place.	4	1		1
PC 21	Follow proper handling of materials, tools, equipment to adapt environmentally friendly processes.	2	1		1
PC 22	Follow Green Practices for work place.	4	1		1

PC 23	Follow Ergonomics practices in maintain health also follow Proper posture while working for injury prevention	4			1
PC 24	Apply Waste management policies by applying 3R principle.	2			1
PC25	Define the concept of a nursery and its importance in vegetable farming.				
PC26	Select suitable vegetables and varieties based on agro-climatic regions for optimal yield.	2	2		
PC27	Describe the process and benefits of terrace gardening for vegetable production	2			
PC28	Differentiate between various types of nurseries used for vegetable production		2		
PC29	Establish a vegetable nursery, considering factors like size, location, and site preparation.	2	4		
PC30	Demonstrate proper techniques for nursery operation and maintenance.	2	4		
PC31	Identify materials and equipment required to set up a shade net house or polyhouse	2	4		
PC32	Explain the advantages and economic viability of using protected structures for vegetable nursery management	2	2		
PC33	Select appropriate soil types for successful vegetable farming for herbs, leafy veggies, common vegetables etc.	2	2		
PC34	Pretreat seeds with suitable cultures to enhance germination of common vegetables.	2	4		
PC35	Prepare seedbeds and demonstrate techniques for raising seedlings for transplanting for various herbs, leafy veggies, common vegetables etc.	2	4		
PC36	Explain the process of sterilizing seedbeds and preparing potting mixtures.	2	2		
PC37	Demonstrate the use of pro-trays for efficient nursery management.	2	4		
PC38	Implement a fertigation system for balanced nutrient delivery in vegetable farming.	2	4		
PC39	Calculate appropriate fertilizer doses for fertigation to ensure balanced plant nutrition.	2	5		

PC40	Discuss the advantages of fertigation, including water saving, yield increase, and profit improvement.	2			
PC41	Identify and utilize suitable fertilizers and equipment for fertigation systems.	2	4		
PC42	Explain the advantages of different irrigation methods like drip and sprinkler systems.	2			
PC43	Define organic farming and explain its key advantages.	2			
PC44	Apply the process of vermicomposting and the types of worms used.	2	4		
PC45	Differentiate traditional composting and vermicomposting	2			
PC46	Construct a propagation house using appropriate materials and methods.		2		
PC47	Implement integrated pest management (IPM) strategies for vegetable farming.	2	2		
PC48	Explain the benefits of using trap crops, light traps, and bio-control agents for pest control.	2	2		
PC49	Demonstrate proper harvesting techniques and storage methods for vegetables		2		
PC50	Maintain vegetable quality through appropriate post-harvest handling practices.		2		
PC51	Explain key marketing practices for vegetables, including labeling.	2	2		
PC52	Apply environmental sustainability considerations in vegetable production and marketing.		2		
	Total Marks for summative Assessment	100	70		30
	Total Marks for Formative Assessment		100		
	Grand Total	300			

**Blueprint of the formative assessment is provided in the Assessment Guide*

Annexure: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

Specify the assessment strategy and plan to evaluate the Candidate on the required competencies of the qualification.

1. Assessment System Overview:

- Intimation will be sent on the 4th day of the commencement of the training programme.
- Assessment agency send the assessment confirmation to RSETIs
- Assessment agency deploys the TOA certified Assessor for executing the assessment
- Assessment agency monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time verified on the same day of assessment intimation itself
- For the assessment of every job role, 2 Assessors are deployed for assessment
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME)
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & Trainer must be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geo tagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location conducted by State Assessment Controllers

Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored

Method for assessment documentation, archiving, and access

- Assessment records and Hard copies of the documents are stored properly

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.