

NSQF QUALIFICATION FILE

approved in the 28th NSQC Meeting – NCVET – 29th March 2023

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

Qualification Code
QG-03-AG-00364-2023-V1-ASCI

Agriculture Skill Council of India (ASCI)

6th floor, GNG Building, Plot No – 10, Sector- 44, Gurugram,
Haryana – 122004

Name and contact details of individual dealing with the submission

Name: Ms Priyanka Prakash

Position in the organisation: Senior Manager – Standards & QA

Address, if different from above

Tel number(s): 0124 – 4670029/ 4814673/ 4814659

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List of documents submitted in support of the Qualifications File

1. Qualifications Pack – Annexure 1
2. Model Curriculum – Annexure 2
3. Industry Validations- Annexure 3

Model Curriculum to be added which will include the following:

- Indicative list of tools/equipment to conduct the training
- Trainers qualification
- Lesson Plan
- Distribution of training duration into theory/practical/OJT component

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SUMMARY

1	Qualification Title	Lac Cultivator
2	Qualification Code, if any	AGR/Q6105, v2.0
3	NCO code and occupation	NCO-2015/6210.0500, Agro-Forestry Management
4	Nature and purpose of the qualification (Please specify whether qualification is shortterm or long term)	Nature of the qualification- a Qualification Pack(QP) The individual will be responsible for the complete lac cultivation process. It includes growing host trees to be inoculated with brood lac, pruning the host trees and inoculating them with brood lac, and monitoring and maintaining the lac crop.
5	Body/bodies which will award the qualification	Agriculture Skill Council of India (ASCI)
6	Body which will accredit providers to offer courses leading to the qualification	Agriculture Skill Council of India (ASCI)
7	Whether accreditation/affiliation norms are already in place or not, if applicable (if yes, attach a copy)	Yes (Annexure 3)
8	Occupation(s) to which the qualification gives access	Agro-Forestry Management
9	Job description of the occupation	A Lac Cultivator is responsible for the complete lac cultivation process. It includes growing host trees to be inoculated with brood lac, pruning the host trees and inoculating them with brood lac, and monitoring and maintaining the lac crop. The individual is also responsible for harvesting lac crop and carrying out its post-harvest processing.
10	Licensing requirements	NA
11	Statutory and Regulatory requirement of the relevant sector (documentary evidence to be provided)	NA
12	Level of the qualification in the NSQF	Level 3
13	Anticipated volume of training/learning required to complete the qualification	Total Duration: 270 Hours Compulsory Modules: 240 Hours (Theory: 90 Hours, Practical: 120 Hours, ES: 30 Hours)

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		OJT: 30 Hours		
14	Indicative list of training tools required to deliver this qualification	Attached herewith		
15	Entry requirements and/or recommendations and minimum age	<p>8th grade pass with 2 years of relevant experience OR Grade 8 pass and pursuing continuous schooling in regular school with vocational subject OR 5th grade pass with 5 years of relevant experience OR Previous relevant qualification of NSQF Level 2 with 1 year of relevant experience OR Previous relevant qualification of NSQF Level 2.5 with 6 months of relevant experience 18 Years</p>		
16	Progression from the qualification (Please show Professional and academic progression)	Lac Trader (NSQF Level-4)		
17	Arrangements for the Recognition of Prior learning(RPL)	<p>RPL assessment will be as per normal ASClassessment process. (ASCI recognizes that there may be candidates who have prior learning experience in the Agriculture Sector and are desirous of being certified. Such candidates can apply to ASCI for testing and certification of their skills. Training Partners will be responsible for identifying and counselling candidates for RPL through mobilization camps and advertisements. The details of the RPL process have been defined by ASCI under the document- Guidelines for Recognition of Prior Learning under PMKVY).</p>		
18	International comparability where known (research evidence to be provided)	Not done as yet		
19	Date of planned review of the qualification.	3 years post NSQC Approval		
20	Formal structure of the qualification Mandatory components			
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours)		Level

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		Theory	Practical	
(i)	Introduction (Bridge Module)	05	00	
(ii)	AGR/N6122: Grow host plants for lac cultivation	10	15	3
(iii)	AGR/N6123: Prune the host trees for lac cultivation	10	20	3
(iv)	AGR/N6124: Inoculate the host trees with brood lac	15	15	3
(v)	AGR/N6126: Undertake pest and disease management during lac cultivation	15	15	3
(vi)	AGR/N6125: Undertake harvesting and post-harvest processing of lac	30	30	3
(vii)	AGR/N9903: Maintain health and safety at the workplace	05	25	4
(viii)	DGT/VSQ/N0101: Employability Skills (30 Hours)	30	00	2
	Total	120	120	
	OJT		30	

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SECTION 1 **ASSESSMENT**

21	<p>Body/Bodies which will carry out assessment: ASCI affiliated assessment bodies.</p> <ol style="list-style-type: none">1. SHL India (Pvt.) Ltd2. Trendsetters Skill Assessors Pvt Ltd3. Mercer-Mettl4. SP Institute of Workforce Development (SPIWD)5. MSAG SI LLP <p>More Assessment Agencies are being empanelled to cover wider geographical area</p>
22	<p>How will RPL assessment be managed and who will carry it out? RPL will be based on the same approved Qualification Pack and Assessment Criteria mentioned in the Qualification Pack and will be carried out as per normal ASCI assessment process. The Training Partner or any other authority as prescribed by the Steering Committee will identify and counsel candidates eligible for RPL through mobilization camps and advertisements. The mobilized candidates can be counselled, oriented about the standardized NSQF framework and basis their existing competency will be mapped against the suitable level of the concerned Job role for assessments. The candidates enrolled will be assessed by the Assessment Agency affiliated with the Sector Skill Council on the basis of assessment criteria decided by Sector Skill Council (SSC). The candidate will need to pass in the minimum assessment criteria of a particular QP decided by the SSC. Successfully assessed candidates with a valid Aadhaar or alternate ID (as per process) will be eligible for QP-NOS based Certification.</p>
23	<p>Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, reliable and fair and show that these are in line with the requirements of the NSQF.</p> <p>A robust technology enabled assessment methodology has been designed keeping in mind the geographical/Physical constraints and target segment which assess a trainee's knowledge and skill set through three methods:</p> <ol style="list-style-type: none">a. An offline Tablet based test through the use of Multiple Choice Text and Picture based questions in vernacular languagesb. Actual demonstration on the fieldc. Viva <p>ASCI's assessment strategy:</p> <ul style="list-style-type: none">• Question sets are developed as per the weightage of each NOS of the Qualification Pack.• Assessment criteria for each Qualification Pack developed, in which

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	<p>each Performance criteria (PC) assigned marks based on NOS</p> <ul style="list-style-type: none">• Question Bank is developed to assess the theoretical and practical knowledge. To ensure the quality, each trainees get different set of question• Empanelment of subject matter expert as assessor primarily from the Industry to assess trainee specifically on practical skills as per Industry demands <p>Assessments are preferably conducted on tablets or pen or papers in regional languages according to the requirement.</p>
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Please attach most relevant and recent documents giving further information about assessment and/or RPL.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.

ASSESSMENT EVIDENCE

Complete a grid for each component as listed in “Formal structure of the qualification” in the Summary.

NOTE: this grid can be replaced by any part of the qualification documentation which shows the same information – i.e. Learning Outcomes to be assessed, assessment criteria and the means of assessment.

24. Assessment evidences

Title of Component:

Outcomes to be assessed/ NOSs to be assessed	Assessment criteria for the outcome

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Means of assessment 1
Pass/Fail

NSQC Approved

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Job Role: Lac Cultivator

Qualification Pack: AGR/Q6105, v2.0

Sector Skill Council: Agriculture Skill Council of India

Assessment Guidelines:

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Assessment will be conducted for all compulsory NOS, and where applicable, on theselected elective/option NOS/set of NOS.
4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).
5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.
6. To pass the Qualification Pack, every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment.

In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack.

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
AGR/N6122: Grow host plants for lac cultivation				
<i>Procure the planting material to grow host trees</i>	5	7	-	5
PC1. select the appropriate type of host tree species for hosting lac insects according to the agro-climatic conditions at the site	-	-	-	-
PC2. identify government-approved vendors for procuring the planting material to grow host plants	-	-	-	-
PC3. examine the quality of planting material and select the planting material vendor(s) based on its quality and price	-	-	-	-

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PC4. procure the planting material and required inputs, e.g. fertilizers and pesticides from the selected vendors or agricultural universities/ government research institutes	-	-	-	-
PC5. store the planting material safely in appropriate storage with the recommended levels of temperature and humidity	-	-	-	-
<i>Raise host tree saplings in the nursery</i>	7	9	-	7
PC6. arrange the required tools, implements and equipment for preparing the nursery bed and field	-	-	-	-
PC7. prepare an appropriate type of nursery bed to grow saplings of those tree species that cannot withstand field conditions during their early stages of growth	-	-	-	-
PC8. follow the appropriate measures to protect saplings from pests and diseases	-	-	-	-
PC9. apply the recommended organic and inorganic fertilizers to saplings according to their nutrient requirements at different stages of growth	-	-	-	-
PC10. determine the maturity of saplings for being transplanted in the field and harvest them, ensuring no damage	-	-	-	-
PC11. maintain the saplings in appropriate and hygienic storage before transplanting	-	-	-	-
<i>Prepare the field for growing host trees</i>	9	12	-	9
PC12. remove any debris, weeds and any waste material from the selected land for growing the host trees	-	-	-	-
PC13. arrange the appropriate tools and implements for soil sampling	-	-	-	-
PC14. collect soil samples from the field and label them with the required information, such as the location and date of sample collection	-	-	-	-
PC15. coordinate with a government-approved laboratory for soil testing	-	-	-	-

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PC16. apply the necessary treatment(s) to the soil to improve its fertility, e.g. application of manure to increase the organic matter content or lime to adjust the soil's pH	-	-	-	-
PC17. carry out the appropriate type of ploughing in the field to achieve the recommended tilth according to the selected host tree species	-	-	-	-
PC18. create pits of the recommended width and depth for planting the host tree saplings	-	-	-	-
PC19. use the farm machinery and other mechanical tools and equipment as per the manufacturer's instructions, ensuring own and others' safety	-	-	-	-
<i>Plant and maintain the host trees</i>	9	12	-	9
PC20. sow the host tree seeds following an appropriate sowing method, such as broadcasting, dibbling, drilling, etc.	-	-	-	-
PC21. transplant host tree saplings in the prepared pits at the recommended depth, ensuring no damage to them	-	-	-	-
PC22. arrange to protect the host tree saplings from stray animals, predators, harsh weather and strong winds	-	-	-	-
PC23. irrigate the saplings with the recommended quantity of water through different stages of their growth, avoiding over and under irrigation	-	-	-	-
PC24. apply the recommended organic and inorganic fertilizers to the host trees to ensure their healthy growth	-	-	-	-
PC25. check the host trees regularly and identify the signs of pest and disease infestation	-	-	-	-
PC26. apply the recommended pesticides to host trees to cure the pest and disease infestation, ensuring no adverse effects on lac production	-	-	-	-
PC27. use the appropriate plant protection equipment for the application of pesticides, ensuring personal safety	-	-	-	-
PC28. identify weed infestation around the host trees and remove weeds	-	-	-	-

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following the appropriate method, e.g. mechanical, cultural or chemical method				
NOS Total	30	40	-	30
AGR/N6123: Prune the host trees for lac cultivation				
<i>Prune the host trees</i>	24	30	-	24
PC1. arrange the appropriate tools, implements and equipment for pruning trees, such as secateurs, pruning knife, shear, saw, etc.	-	-	-	-
PC2. identify appropriate twigs of the recommended diameter for pruning	-	-	-	-
PC3. carry out pruning to the recommended extent, avoiding excessive pruning to maintain the health and strength of host trees	-	-	-	-
PC4. prune in a manner to allow adequate space for the growth of new shoots and maintain the host trees in a good shape	-	-	-	-
PC5. identify and remove the dead and diseased branches without damaging the healthy ones	-	-	-	-
PC6. identify the broken/split branches and cut below the break/split	-	-	-	-
PC7. follow the recommended host pruning schedule according to the type of host tree	-	-	-	-
<i>Ensure safety during pruning activities</i>	6	10	-	6
PC8. use the appropriate Personal Protective Equipment (PPE) and accessories during pruning activities, e.g. use of safety gloves, goggles and ladders	-	-	-	-
PC9. follow the recommended practices to ensure personal safety during pruning activities, e.g. safe and controlled use of mechanical equipment	-	-	-	-
NOS Total	30	40	-	30
AGR/N6124: Inoculate the host trees with brood lac				
<i>Select brood lac twigs</i>	7	9	-	7
PC1. estimate and arrange an appropriate quantity of brood according to the type of tree and the number and length of suitable branches	-	-	-	-

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PC2. select brood for inoculation, ensuring it is fully mature and free from insect and disease infestation	-	-	-	-
PC3. identify and remove the unsuitable brood	-	-	-	-
<i>Inoculate the host trees with brood lac</i>	13	18	-	13
PC4. cut the brood lac twigs to the recommended length using the appropriate cutting tool, e.g. secateurs	-	-	-	-
PC5. maintain the brood lac twigs under an appropriate temperature before inoculation to induce swarming of nymphs from the brood	-	-	-	-
PC6. check the brood lac twigs for the emergence of larvae	-	-	-	-
PC7. bundle the brood lac twigs in appropriate nylon bags for inoculation	-	-	-	-
PC8. tie the brood twigs on the upper surface of new and tender twigs of host trees for the migration of nymphs from brood lac twigs to host twigs	-	-	-	-
PC9. ensure full contact between the brood lac twigs and host twigs	-	-	-	-
PC10. use the recommended quantity of brood lac for inoculation	-	-	-	-
PC11. ensure to use the harvested brood lac for inoculation within the recommended duration	-	-	-	-
<i>Maintain the brood lac on host trees</i>	10	13	-	10
PC12. monitor the brood lac on host trees regularly and take appropriate measures to prevent them from dropping	-	-	-	-
PC13. maintain brood lac bundles on the host plant for the recommended inoculation period	-	-	-	-
PC14. inspect the settlement of lac insects at different brood lac inoculated points	-	-	-	-
PC15. collect all used-up brood lac sticks from the host plant to prevent wastage and attack from enemy insects	-	-	-	-
PC16. carry out the alternation of brood and host to achieve good quality brood lac production	-	-	-	-

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PC17. follow the appropriate measures to protect the lac crop from high temperatures, e.g. sprinkling water to the lac crop	-	-	-	-
NOS Total	30	40	-	30
AGR/N6126: Undertake pest and disease management during lac cultivation				
<i>Monitor the lac crop</i>	7	10	-	7
PC1. inspect the lac crop regularly and identify the signs of pest and disease infestation	-	-	-	-
PC2. arrange the appropriate pesticides and other relevant chemicals to treat pest and disease infestation in the lac crop	-	-	-	-
<i>Undertake protective measures for the lac crop</i>	23	30	-	23
PC3. follow the recommended preventive measures to protect the lac crop under varying temperature and humidity levels	-	-	-	-
PC4. ensure good aeration around the inoculated branches on the host tree to avoid fungal growth	-	-	-	-
PC5. cover the bundle of brood lac in a synthetic net bag/pouch to prevent enemy insect infestation during the inoculation stage of lac cultivation	-	-	-	-
PC6. apply the recommended pesticides at the recommended intervals after inoculation to protect the lac crop from fungal infestation and insect attacks	-	-	-	-
PC7. ensure to use pesticides/bio-pesticides in the recommended quantity to avoid any adverse impacts on the lac crop	-	-	-	-
PC8. follow the appropriate biological control measures to control the predator enemies of lac crop	-	-	-	-
PC9. follow the appropriate measures to control microbial infection	-	-	-	-
NOS Total	30	40	-	30
AGR/N6125: Undertake harvesting and post-harvest processing of lac				
<i>Harvest the lac</i>	16	28	-	16

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PC1. check the host twigs to determine the occurrence of swarming	-	-	-	-
PC2. remove brood lac twigs used for inoculation and the used brood lac after complete emergence of lac nymphs from female cells	-	-	-	-
PC3. check the host twigs and identify the signs of complete lac encrustation and maturation	-	-	-	-
PC4. collect mature lac from the host twigs	-	-	-	-
PC5. follow the recommended harvesting schedule according to the lac crop, i.e. Kartiki, Aghani and Jethwi	-	-	-	-
PC6. ensure to harvest only mature lac crop except in case of Palas lac	-	-	-	-
PC7. carry out partial harvesting when surplus brood lac is on the host tree, and the appropriate number of branches is available on the tree for the next generation	-	-	-	-
PC8. store the harvested brood lac under the recommended temperature in a shaded and well-ventilated storage	-	-	-	-
PC9. use the freshly harvested brood lac for further inoculation, as required	-	-	-	-
PC10. scrap lac resin encrustation from the harvested brood lac twigs using a scraping knife and protect it from sunlight	-	-	-	-
<i>Undertake post-harvest processing of lac</i>	14	22	-	14
PC11. grind the scraped lac in the hard stone mill	-	-	-	-
PC12. sort out the unnecessary materials	-	-	-	-
PC13. wash lac with cold water to remove the fine dirt particles and colour	-	-	-	-
PC14. undertake sun-drying of the washed lac	-	-	-	-
PC15. carry out melting of lac under the recommended temperature, mixing appropriate colours as per the requirement	-	-	-	-

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PC16. sieve the melted lac through cloth and carry out moulding to give it an appropriate shape as per the requirement	-	-	-	-
PC17. store the processed lac at the recommended temperature and humidity	-	-	-	-
PC18. use the recommended packing material to pack the processed lac	-	-	-	-
NOS Total	30	40	-	30
AGR/N9903: Maintain health and safety at the workplace				
<i>Maintain personal hygiene</i>	10	5	-	10
PC1. wash hands, legs and face with soap/alcohol-based sanitiser at reasonable intervals	-	-	-	-
PC2. wash the worn clothes with soap and sun-dry before use next time	-	-	-	-
PC3. ensure the face is covered with a mask or three layers of cloth-piece	-	-	-	-
PC4. follow the workplace sanitization norms including distancing from sick people	-	-	-	-
<i>Maintain a clean and safe workplace</i>	15	15	-	15
PC5. carry out basic safety checks before operation of all tools, implements, and machinery and report identified hazards to the supervisor	-	-	-	-
PC6. wear appropriate personal protective equipment (PPE) while performing work in accordance with the workplace policy	-	-	-	-
PC7. follow the instructions mentioned on the labels of chemicals/pesticides/fumigants etc. to avoid hazards	-	-	-	-
PC8. assess risks prior to performing manual handling jobs, and work according to currently recommended safe practices	-	-	-	-
PC9. sanitize equipment, tools and machinery before and after use	-	-	-	-
PC10. use equipment and materials safely and correctly and return the same to designated storage after use	-	-	-	-
PC11. dispose waste safely and correctly in the designated area	-	-	-	-

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PC12. recognize risks to bystanders and take the required action to reduce the risks	-	-	-	-
PC13. work in a manner that minimises environmental damage, ensuring all procedures and instructions for controlling risks are followed	-	-	-	-
PC14. report any accidents, incidents or problems without delay to an appropriate person and take	-	-	-	-
PC15. follow government/ workplace advisories in case of an outbreak of any disease/disaster	-	-	-	-
<i>Administer appropriate emergency procedures</i>	15	5	-	10
PC16. follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to the location of the emergency, as per the workplace requirements	-	-	-	-
PC17. use emergency equipment in accordance with the manufacturer's specifications and workplace requirements	-	-	-	-
PC18. report provided treatment appropriate to the patient's injuries in accordance with recognized first aid techniques	-	-	-	-
PC19. recover (if practical), clean, inspect/test, refurbish, replace and store the first aid equipment as appropriate	-	-	-	-
PC20. report details of first aid administered in accordance with workplace procedures	-	-	-	-
NOS Total	40	25	-	35
DGT/VSQ/N0101: Employability Skills – NOS (30 hours)				
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
<i>Constitutional values – Citizenship</i>	1	1	-	-
PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices.	-	-	-	-

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<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
PC3. explain 21st Century Skills such as Self-Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC4. speak with others using some basic English phrases or sentences	-	-	-	-
<i>Communication Skills</i>	1	1	-	-
PC5. follow good manners while communicating with others	-	-	-	-
PC6. work with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-
PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC8. report any issues related to sexual harassment	-	-	-	-
<i>Financial and Legal Literacy</i>	3	4	-	-
PC9. use various financial products and services safely and securely	-	-	-	-
PC10. calculate income, expenses, savings etc.	-	-	-	-
PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
<i>Essential Digital Skills</i>	4	6	-	-
PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
PC13. use internet and social media platforms securely and safely	-	-	-	-
<i>Entrepreneurship</i>	3	5	-	-
PC14. identify and assess opportunities for potential business	-	-	-	-
PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
<i>Customer Service</i>	2	2	-	-
PC16. identify different types of customers	-	-	-	-

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PC17. identify customer needs and address them appropriately.	-	-	-	-
PC18. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
PC19. create a basic biodata	-	-	-	-
PC20. search for suitable jobs and apply.	-	-	-	-
PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
NOS Total	20	30	-	-

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SECTION 2 EVIDENCE OF LEVEL

OPTION B

Title/ Name of qualification/ component: Lac Cultivator			Level: 3
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none">• Process of growing host plants for lac cultivation• Process of pruning the host trees for lac cultivation• Process of inoculating the host trees with brood lac• Process of undertaking pest and disease management during lac cultivation• Process of undertaking harvesting and post-harvest processing of lac• Process of maintaining health and safety at the workplace• Process of undertaking basic entrepreneurial activities for small enterprise	A Lac Cultivator is responsible for the complete lac cultivation process. It includes growing host trees to be inoculated with brood lac, pruning the host trees and inoculating them with brood lac, and monitoring and maintaining the lac crop. The individual is also responsible for harvesting lac crop and carrying out its post-harvest processing.	3
Professional knowledge	<ul style="list-style-type: none">• Understand the agro-climatic conditions appropriate for raising host trees and producing lac• Understand the importance of procuring planting material from government-approved vendors	The job holder is expected to have knowledge of agro-climatic conditions appropriate for raising host trees and producing lac, procuring planting material from government-approved vendors, growing host trees for lac cultivation, raising host tree saplings in the nursery and the appropriate care they require, transplanting saplings in the	3

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	<ul style="list-style-type: none"> • Know various inputs required for growing host trees for lac cultivation • Understand the process of raising host tree saplings in the nursery and the appropriate care they require • Understand the process of transplanting saplings in the field • Understand the requirement of pruning host trees before inoculating them with brood lac • Know different pruning methods • Know how to use appropriate pruning tools and implements • Know different species and strains of brood lac • Understand the process of inoculating the host trees with brood lac • Know the appropriate preventive measures to be taken to protect the la crop from pest and disease infestation • Know the basic components of stick lac • Know the appropriate safe working practices for harvesting lac 	<p>field, appropriate preventive measures to be taken to protect the la crop from pest and disease infestation.</p>	
Professional skill	<ul style="list-style-type: none"> • Procure the planting material and required inputs • Store the planting material safely in appropriate storage with the recommended levels of temperature and humidity 	<p>The job holder is expected to coordinate in procuring the planting material and required inputs, preparing an appropriate type of nursery bed to grow saplings of those tree species that cannot withstand field conditions during their early stages of growth, maintaining the saplings in appropriate and hygienic storage before</p>	3

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	<ul style="list-style-type: none"> • Prepare an appropriate type of nursery bed to grow saplings of those tree species that cannot withstand field conditions during their early stages of growth • Maintain the saplings in appropriate and hygienic storage before transplanting • Coordinate with a government-approved laboratory for soil testing • Carry out pruning to the recommended extent, avoiding excessive pruning to maintain the health and strength of host trees • cut the brood lac twigs to the recommended length using the appropriate cutting tool • bundle the brood lac twigs in appropriate nylon bags for inoculation 	transplanting, carrying out pruning to the recommended extent, avoiding excessive pruning to maintain the health and strength of host trees	
Core Skills	<ul style="list-style-type: none"> • Growing host plants for lac cultivation • Pruning the host trees prior to inoculating brood during lac cultivation • Selecting suitable brood lac twigs and inoculating the host trees with them. It also covers the maintenance of brood lac on host trees • Undertaking pest and disease management during lac cultivation • Undertaking harvesting and post-harvest processing of lac • Maintaining the health and safety of self 	The job holder is expected to Growing host plants for lac cultivation, pruning the host trees prior to inoculating brood during lac cultivation, selecting suitable brood lac twigs and inoculating the host trees with them. It also covers the maintenance of brood lac on host trees, harvesting and post-harvest processing of lac	3

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	<p>and co-workers at the workplace</p> <ul style="list-style-type: none"> • Undertaking basic entrepreneurial or business activities in the agriculture sector 		
Responsibility	<p>The job holder will be responsible for below mention activities.</p> <ul style="list-style-type: none"> • Procure the planting material to grow host trees • Raise host tree saplings in the nursery • Prepare the field for growing host trees • Plant and maintain the host trees • Prune the host trees • Ensure safety during pruning activities • Select brood lac twigs • Inoculate the host trees with brood lac • Maintain the brood lac on host trees • Monitor the lac crop • Undertake protective measures for the lac crop • Harvest the lac • Undertake post-harvest processing of lac • Optimise resource utilisation • Perform waste management • Practice inclusion at work • Maintain personal hygiene • Maintain a clean and safe workplace 	<p>A Lac Cultivator is responsible for the complete lac cultivation process. It includes growing host trees to be inoculated with brood lac, pruning the host trees and inoculating them with brood lac, and monitoring and maintaining the lac crop. The individual is also responsible for harvesting lac crop and carrying out its post-harvest processing</p>	3

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	<ul style="list-style-type: none">• Administer appropriate emergency procedures• Plan the agricultural enterprise/ business• Manage the agricultural production process• Manage the post-production and marketing processes		
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SECTION 3

EVIDENCE OF NEED

26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?
Basis	
Need of the qualification	<p>While collecting data from the companies for the occupational map, we also took feedback from industry and training institutions which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on the volume of people required, and the quantitative and qualitative shortfall that the industry feels they face. Governing council of ASCI and the Occupational Standards Committee which comprises experts & senior leaders gave final approval and endorsement for the same.</p> <p>The world is fast becoming an urban place and almost two third of the world's population is expected to exist in urban areas by 2025. Cities occupy less than 3 per cent of the global terrestrial surface but account for 78 per cent of carbon emissions, 60 per cent of residential water use and 76 per cent of wood used for industrial purposes. Dealing with multiple risks of climate change such as temperature and precipitation variability, drought, flooding and extreme rainfall, cyclone and storm surge, sea level rise and related environmental health menace is a stern public policy and adaptation management challenge for India.</p> <p>There is a rising demand for more and more natural forests with human efforts.</p> <ul style="list-style-type: none">• People particularly in urban areas are creating a huge demand for Urban-forests.• Even local bodies, NGOs, trade bodies and industrialists are demanding Mini-forests to offset their carbon footprint.• Urban Forest Developers are required for the implementation of the Nagar Van Scheme of GOI.
Industry Relevance	Validations have been received from Maharana Pratap Horticulture University, ICAR Shimla, KVK Saharsa, Bihar Agriculture University, Empower Pragati
Usage of the qualification	An NSQF aligned training to the persons involved in grooming of Lac Cultivator shall provide opportunities to the incumbents for horizontal and vertical career progression. Competency-based training shall imbibe professionalism in the job-role. Being an important and ever-expanding job, the job-role of Lac Cultivator may

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	<p>well be included in the vocational education stream of school education.</p> <p>An industry-determined specification of performance, sets out the skills, knowledge and attitudes required to operate effectively in employment.</p> <p>For employers, the Lac Cultivator Qualification standards offer:</p> <ul style="list-style-type: none"> • a means of assessing occupational competence objectively, including knowledge and understanding of the subject • a guide for job descriptions and recruitment requirements • a basis for staff appraisals • a systematic approach to analyzing training needs • an opportunity to improve overall company performance by developing a better-trained, better-equipped and more effective workforce. <p>To employees and freelancers, the Lac Cultivator Qualification standards provide:</p> <ul style="list-style-type: none"> • a means for recognizing ability • a means for determining gaps in knowledge, experience and skills • an objective process for identifying training needs • performance indicators and a guide to effectiveness and efficiency. <p>One of the most valuable uses of the occupational standards is in the assessment of a person's performance within a particular job. Because the standards are based on the industry's requirements for ability, skills and knowledge, they provide an objective and directly relevant measure for employers and employees alike.</p>			
	<p>The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Lac Cultivator</p>			
<p>Estimated uptake</p>	<p>QP/Job Role Name</p>	<p>"States where Demand exist</p>	<p>"District where Demand exist</p>	<p>Projections for the next 3 years</p>
	<p>Lac Cultivator</p>	<p>PAN INDIA</p>	<p>Various Districts</p>	<p>3000</p>
<p>27</p>	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</p> <p>In-process</p>			
<p>28</p>	<p>What steps were taken to ensure that the qualification(s) does (do) not duplicate already existing or planned qualifications in the NSQF? Give justification for presenting a duplicate qualification</p>			

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	This is the revised version of the already NSQC-approved QP of Lac Cultivator (NQR- 2019/AGR/ASCI/3264). The revision has been undertaken as the QP is going to expire soon.
29	<p>What arrangements are in place to monitor and review the qualification(s)? What data will be used and at what point will the qualification(s) be revised or updated? Specify the review process here</p> <p>Any institution or individual is welcome to send the feedback, which is recorded and considered during next review cycle.</p> <p>Communication will be sent for any feedback to all the main stakeholders/users one month prior to the review of the qualifications pack.</p> <p>A formal review is scheduled in three years.</p>

Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information

SECTION 4

EVIDENCE OF PROGRESSION

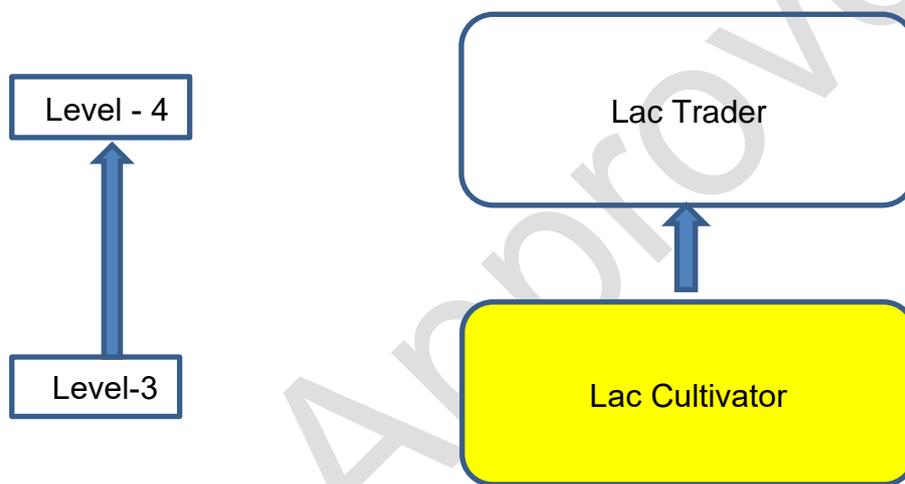
30

What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

Show the career map here to reflect the clear progression

Career path in the agriculture sector is generally in terms of activities done & ownership of responsibility because they are primarily self-wage employment/ entrepreneurship roles.

Annexure 1: Career Map of Lac Cultivator



Please attach most relevant and recent documents giving further information about any of the topics above.

Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.