

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:

Agriculture Skill Council of India (ASCI)
6th floor, GNG Building, Plot No – 10, Sector- 44, Gurugram,
Haryana – 122004

Qualification Code

QG-05-AG-00355-2023-V1-ASCI

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

E-mail address: priyanka@asci-india.com

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	Produce Mapping Surveyor
2	Qualification Code, if any	AGR/Q7907, v2.0
3	NCO code and occupation	NCO-2015/1324, Commodity Management
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	<p>Nature of the qualification- a Qualification Pack (QP)</p> <p>The individual will be responsible for produce mapping, supervising the establishment of crops, and identifying and treating pests, diseases, weeds and soil fertility issues.</p>
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	Commodity Management
9	Job description of the occupation	A Produce Mapping Surveyor is responsible for produce mapping, supervising the establishment of crops, and identifying and treating pests, diseases, weeds and soil fertility issues. The individual is also responsible for developing and implementing sustainable farming strategies.
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 5
13	Anticipated volume of training/learning required to complete the qualification	<p>Total Duration: 510 Hours</p> <p>Compulsory Modules: 390 Hours (Theory: 150 Hours, Practical: 150 Hours, ES: 90 Hours)</p> <p>OJT: 120 Hours</p>
14	Indicative list of training tools required to deliver this qualification	Attached herewith
15	Entry requirements and/or	Completed 2nd year of UG

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	recommendations and minimum age	OR Pursuing 2nd year of UG and continuous education OR Completed 2nd year of diploma (after 12th) OR Pursuing 2nd year of 2-year diploma after 12th OR Previous relevant qualification of NSQF Level 4 and with minimum education as 8th grade pass with 3 years of relevant experience OR Previous relevant qualification of NSQF Level 4.5 with 1.5 years of relevant experience 21 years		
16	Progression from the qualification (Please show Professional and academic progression)	Agri Commodity Procurement Manager (NSQF Level -5.5)		
17	Arrangements for the Recognition of Prior learning (RPL)	RPL assessment will be as per normal ASCI assessment 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).		
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
		Theory	Practical	
(i)	Introduction (Bridge Module)	05	00	
(ii)	AGR/N7920: Carry out produce mapping	20	35	5
(iii)	AGR/N7921: Supervise the establishment	15	15	5

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	of crops			
(iv)	AGR/N7922: Identify and treat plant pests, diseases, weeds and soil fertility issues	30	30	5
(v)	AGR/N7923: Develop and implement sustainable farming strategies	45	15	5
(vi)	AGR/N7904: Maintain records concerning commodity management	30	30	6
(vii)	AGR/N9911: Ensure adherence to health and safety guidelines at work	05	25	6
(viii)	DGT/VSQ/N0103: Employability Skills (90 Hours)	90	00	5
	Total	240	150	
OJT: 120 Hours				

SECTION 1
ASSESSMENT

21	Body/Bodies which will carry out assessment: ASCI affiliated assessment bodies. <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 More Assessment Agencies are being empanelled to cover wider geographical area
22	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.
23	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. 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: <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 ASCI's assessment strategy: <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: Produce Mapping Surveyor

Qualification Pack: AGR/Q7907, 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 the selected 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.
7. 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/N7920: Carry out produce mapping				
<i>Determine the demand and supply of relevant commodities</i>	10	15	-	6
PC1. identify all the commodities produced in a particular season and territory	-	-	-	-
PC2. analyze the demand and supply curve of the selected commodities	-	-	-	-
<i>Prepare the produce map</i>	20	25	-	24
PC3. select the appropriate primary and secondary sources for collecting the relevant information	-	-	-	-
PC4. identify the target areas and survey them for produce mapping	-	-	-	-

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PC5. collect information about the relevant growers, traders and aggregators, and prepare their database	-	-	-	-
PC6. collect information about the existing crops, production systems, land and other resources	-	-	-	-
PC7. prepare the produce map maps and produce arrival maps				
PC8. use the appropriate tools and equipment for produce mapping, e.g. Geographic Information System (GIS)	-	-	-	-
PC9. ensure to consider the relevant factors while preparing the produce map, such as possible changes in the produce ecosystem	-	-	-	-
NOS Total	30	40	-	30
AGR/N7921: Supervise the establishment of crops				
<i>Plan the planting activities</i>	11	12	-	10
PC1. identify the target area for planting by studying the production/management plan	-	-	-	-
PC2. assess the land conditions in the target area	-	-	-	-
PC3. identify the crop to be grown and the cultivation method to be adopted as per the production plan	-	-	-	-
PC4. determine the requirement of various resources for planting according to the cultivation area and the planting method	-	-	-	-
PC5. arrange the necessary resources in the required quantity	-	-	-	-
PC6. identify and adopt appropriate measures to minimize the detrimental impacts of climate on the crop	-	-	-	-
PC7. ensure the availability of required tools, equipment, machinery and Personal Protective Equipment (PPE)	-	-	-	-
PC8. set measurable targets and performance indicators based on the production plan	-	-	-	-
<i>Schedule planting activities and determine responsibilities</i>	10	14	-	9

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PC9. determine the schedule for planting considering relevant factors, e.g. geographic and resourcing factors	-	-	-	-
PC10. determine the responsibilities of different individuals concerning the preparatory and planting activities	-	-	-	-
PC11. carry out appropriate documentation concerning the scheduling and identified responsibilities for individuals	-	-	-	-
<i>Monitor the production activities</i>	9	14	-	11
PC12. ensure monitoring of production activities as per the implementation plan	-	-	-	-
PC13. check and ensure the recommended environmental protection measures are followed	-	-	-	-
PC14. ensure smooth production activities through coordination with farmers, contractors and other relevant personnel	-	-	-	-
PC15. identify issues with the implementation of the production plan and take appropriate corrective measures	-	-	-	-
PC16. carry out appropriate documentation as per the organizational standards	-	-	-	-
NOS Total	30	40	-	30
AGR/N7922: Identify and treat plant pests, diseases, weeds and soil fertility issues				
<i>Identify and treat pest and disease issues</i>	7	11	-	10
PC1. perform regular checks on the crop and identify the signs of pest and disease infestation	-	-	-	-
PC2. select the appropriate pesticides to treat the pest and disease infestation	-	-	-	-
PC3. supervise the process of preparing pesticides for application as per the manufacturer's instructions, e.g. dilution of liquid pesticides with water	-	-	-	-
PC4. ensure appropriate pesticides are applied to the crop in the	-	-	-	-

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recommended quantity to remove the identified pests and diseases				
PC5. ensure the use of appropriate plant protection equipment and PPE during the application of pesticides	-	-	-	-
PC6. adopt the recommended organic methods to prevent and control pest and disease infestation, ensuring to protect the environment	-	-	-	-
PC7. maintain records concerning the use of pesticides	-	-	-	-
<i>Identify and treat soil fertility issues</i>	12	14	-	10
PC8. supervise the process of collecting and labelling soil samples from the field	-	-	-	-
PC9. identify soil fertility issues by getting soil samples tested through coordination with a government-approved soil testing laboratory	-	-	-	-
PC10. identify soil fertility issues by getting soil samples tested through coordination with a government-approved soil testing laboratory	-	-	-	-
PC11. instruct the relevant personnel to apply appropriate soil treatment, e.g. compost, manure, and inorganic fertilizers, to improve soil fertility	-	-	-	-
<i>Identify and treat weed issues</i>	11	15	-	10
PC12. identify different types of weed infestation in crop fields	-	-	-	-
PC13. select the appropriate method for weed control, e.g. cultural, mechanical, biological and chemical weed control	-	-	-	-
PC14. ensure the use of appropriate herbicides in the recommended quantity	-	-	-	-
PC15. maintain the beneficial weeds in crop fields	-	-	-	-
PC16. maintain a weed herbarium for the identification and management of weeds	-	-	-	-
NOS Total	30	40	-	30
AGR/N7923: Develop and implement sustainable farming strategies				

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<i>Assess the existing farming practices</i>	9	12	-	9
PC1. determine the applicable environmental regulations and sustainable farming requirements	-	-	-	-
PC2. analyze the guidelines and best practices concerning environmental regulations and sustainable farming, referring to the relevant and reliable sources	-	-	-	-
PC3. determine the impact of existing practices on the environment and farming operations	-	-	-	-
<i>Develop sustainability strategies</i>	9	12	-	9
PC4. identify new and appropriate sustainable and organic farming practices, ensuring they comply with the applicable regulations	-	-	-	-
PC5. develop and communicate sustainability strategies to the relevant stakeholders to seek their feedback	-	-	-	-
PC6. update the sustainability strategies as per the stakeholder feedback	-	-	-	-
<i>Implement sustainability strategies</i>	12	16	-	12
PC7. identify and document continuous improvement opportunities in the farming business guidelines and principles	-	-	-	-
PC8. implement appropriate strategies to integrate sustainability practices into the farming business effectively	-	-	-	-
PC9. encourage and assist the farming community in implementing the developed sustainability strategies	-	-	-	-
PC10. use the relevant resources such as water and electricity optimally and ensure others also do the same	-	-	-	-
PC11. follow the appropriate practices to reduce the wastage of resources, e.g. turn off electrical equipment when they are not in use	-	-	-	-
PC12. ensure segregation of waste into appropriate categories	-	-	-	-

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PC13. ensure recycling and disposal of different types of waste as per the applicable regulatory requirements	-	-	-	-
PC14. monitor the farming community and the supply chain's compliance with the sustainability strategies	-	-	-	-
NOS Total	30	40	-	30
AGR/N7904: Maintain records concerning commodity management				
<i>Maintain the records</i>	16	18	-	16
PC1. maintain records concerning the trends, patterns, factors impacting commodity prices and other relevant observations	-	-	-	-
PC2. evaluate the records to ensure they are up-to-date, complete and accurate	-	-	-	-
PC3. use the appropriate computer software to maintain electronic records	-	-	-	-
PC4. ensure to maintain the appropriate organizational records in compliance with the applicable regulations	-	-	-	-
PC5. conduct a regular review of the records as per the organizational policies	-	-	-	-
<i>Store the records safely</i>	14	22	-	14
PC6. store the records safely with appropriate access controls to prevent unauthorized access	-	-	-	-
PC7. maintain the electronic backup of the critical records to protect against accidental damage or loss of physical documents	-	-	-	-
NOS Total	30	40	-	30
AGR/N9911: Ensure adherence to health and safety guidelines at work				
<i>Ensure health and safety</i>	16	18	-	16
PC1. follow the organizational policy to ensure personal health and safety at the work	-	-	-	-
PC2. ensure that all the co-workers use the appropriate PPE such as gloves, hairnet, mask, earplug, goggles and shoes in all the operations	-	-	-	-

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PC3. conduct regular checks to ensure that PPE, emergency equipment and first-aid kit are updated and useable	-	-	-	-
PC4. arrange for the PPE, emergency equipment and first-aid kit to be updated/ replaced as required	-	-	-	-
PC5. ensure the machinery, tools, equipment and the work area are sanitized before and after the use	-	-	-	-
PC6. check that machineries, tools and equipment are used and stored safely as per the manufacturer's instructions	-	-	-	-
PC7. ensure safe handling of any hazardous materials such as chemicals and flammable objects	-	-	-	-
PC8. identify health and safety hazards at the work and take appropriate preventive measures	-	-	-	-
PC9. ensure that only authorized personnel have access to hazardous work areas	-	-	-	-
PC10. arrange for regular workplace audit to ensure safe working conditions	-	-	-	-
PC11. report any out of authority issues to the relevant authority for a timely resolution	-	-	-	-
<i>Deal with emergencies at work</i>	14	22	-	14
PC12. follow the organizational policy to deal with emergencies such as fire, accidents, disease outbreak or natural calamities	-	-	-	-
PC13. arrange for immediate medical attention for any injured personnel	-	-	-	-
PC14. ensure the safe use of emergency equipment according to the manufacturer's instructions	-	-	-	-
PC15. arrange for the emergency equipment to be repaired or replaced as required	-	-	-	-
PC16. report workplace emergencies/ accidents to the relevant authority in compliance with the	-	-	-	-

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organizational and regulatory requirements				
NOS Total	30	40	-	30
DGT/VSQ/N0103: Employability Skills – NOS (90 hours)				
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. understand the significance of employability skills in meeting the current job market requirement and future of work.	-	-	-	-
PC2. identify and explore learning and employability relevant portals	-	-	-	-
PC3. research about the different industries, job market trends, latest skills required and the available opportunities.	-	-	-	-
<i>Constitutional values – Citizenship</i>	1	1	-	-
PC4. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC5. follow environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
PC6. recognize the significance of 21st Century Skills for employment	-	-	-	-
PC7. practice the 21st Century Skills such as Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal and professional life	-	-	-	-
PC8. adopt a continuous learning mindset for personal and professional development	-	-	-	-
<i>Basic English Skills</i>	3	4	-	-

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PC9. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC10. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC11. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-
PC12. identify career goals based on the skills, interests, knowledge, and personal attributes	-	-	-	-
PC13. prepare a career development plan with short- and long-term goals.	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC14. follow verbal and non-verbal communication etiquette while communicating in professional and public settings	-	-	-	-
PC15. use active listening techniques for effective communication	-	-	-	-
PC16. communicate in writing using appropriate style and format based on formal or informal requirements	-	-	-	-
PC17. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	1	-	-
PC18. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC19. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	2	3	-	-
PC20. identify and select reliable institutions for various financial products and services such as bank account, debit and credit cards, loans, insurance etc.	-	-	-	-
PC21. carry out offline and online financial transactions, safely and securely, using various methods and check the entries in the passbook	-	-	-	-
PC22. identify common components of salary and compute income, expenses, taxes, investments etc.	-	-	-	-

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PC23. identify relevant rights and laws and use legal aids to fight against legal exploitation				
<i>Essential Digital Skills</i>	3	5	-	-
PC24. operate digital devices and use their features and applications securely and safely	-	-	-	-
PC25. carry out basic internet operations by connecting to the internet safely and securely, using the mobile data or other available networks through Bluetooth, Wi-Fi, etc.	-	-	-	-
PC26. display responsible online behavior while using various social media platforms	-	-	-	-
PC27. create a personal email account, send and process received messages as per requirement	-	-	-	-
PC28. carry out basic procedures in documents, spreadsheets and presentations using respective and appropriate applications	-	-	-	-
PC29. utilize virtual collaboration tools to work effectively	-	-	-	-
<i>Entrepreneurship</i>	2	3	-	-
PC30. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC31. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC32. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	1	2	-	-
PC33. identify different types of customers and ways to communicate with them	-	-	-	-
PC34. identify and respond to customer requests and needs in a professional manner	-	-	-	-

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PC35. use appropriate tools to collect customer feedback	-	-	-	-
PC36. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
PC37. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC38. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC39. apply to identified job opening using offline /online methods as per requirement	-	-	-	-
PC40. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC41. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
NOS Total	20	30	-	-

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SECTION 2

EVIDENCE OF LEVEL

OPTION B

Title/ Name of qualification/ component: Produce Mapping Surveyor			Level: 5
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none">• Process of carrying out produce mapping• Process of supervising the establishment of crops• Process of identifying and treat plant pests, diseases, weeds and soil fertility issues• Process of developing and implementing sustainable farming strategies• Process of maintaining records concerning commodity management• Process of ensuring adherence to health and safety guidelines at work	<p>A Produce Mapping Surveyor is responsible for produce mapping, supervising the establishment of crops, and identifying and treating pests, diseases, weeds and soil fertility issues. The individual is also responsible for developing and implementing sustainable farming strategies.</p> <p>The individual should have the ability to plan and organize and solve problems. The person should possess good written and verbal communication skills.</p>	5
Professional knowledge	<ul style="list-style-type: none">• Knowledge of appropriate primary and secondary sources for collecting information• Understand the procedure for the preparation of produce mapping• Know how to resolve the common problems experienced while preparing the produce map• Know how to use modern mapping tools, e.g. GIS• Knowledge of demand and supply analysis techniques for commodities	<p>The job holder is expected to have knowledge of primary and secondary sources for collecting information, resolving common problems, using modern mapping tools, e.g. GIS, demand and supply analysis techniques for commodities, various resources for planting activities, setting measurable targets and performance indicators based on the production plan, maintaining beneficial weeds in crop fields.</p>	5

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	<ul style="list-style-type: none">• Knowledge of various resources for planting activities• Know how to use the relevant tools, equipment and machinery• Know how to set measurable targets and performance indicators based on the production plan• Understand the importance and process of monitoring the production activities• Knowledge of different types of crop pests and diseases• Knowledge of maintaining beneficial weeds in crop fields• Understand the relevant sustainability issues• Know the benchmarks relevant to organic and sustainable farming		
Professional skill	<ul style="list-style-type: none">• Analyze the demand and supply curve of the selected commodities• Select the appropriate primary and secondary sources for collecting the relevant information• Collect information about the existing crops, production systems, land and other resources• Assess the land conditions in the target area• Arrange the necessary resources in the required quantity• Carry out appropriate documentation• Perform regular checks on the crop and identify the signs of pest and disease infestation	The job holder is expected to coordinate in analyzing the demand and supply curve of the selected commodities, selecting the appropriate primary and secondary sources for collecting the relevant information, collecting information about the existing crops, carrying out appropriate documentation, supervising the process of collecting and labelling soil samples, selecting the appropriate method for weed control	5

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	<ul style="list-style-type: none"> • Supervise the process of collecting and labelling soil samples • Instruct the relevant personnel to apply appropriate soil treatment • Select the appropriate method for weed control • Maintain the beneficial weeds in crop fields • Determine the impact of existing practices on the environment and farming operations • Update the sustainability strategies as per the stakeholder feedback 		
Core Skills	<ul style="list-style-type: none"> • Making appropriate preparation and carrying out produce mapping • Supervising the establishment of crops, including planning the planting activities, scheduling planting • Determining the responsibilities of personnel involved and monitoring the production activities • Identifying and treating pests, diseases, weeds and soil fertility issues in agricultural fields • Developing and implementing sustainable farming strategies • Documenting and maintaining records concerning commodity management 	The job holder is expected to making appropriate preparation and carrying out produce mapping, supervising the establishment of crops, including planning the planting activities, scheduling planting, determining the responsibilities of personnel involved and monitoring the production activities, identifying and treating pests, diseases, weeds and soil fertility issues in agricultural fields, developing and implementing sustainable farming strategies, documenting and maintaining records concerning commodity management.	5
Responsibility	<ul style="list-style-type: none"> • Responsible for determining the demand and supply of relevant commodities • Responsible for preparing the produce map • Responsible for planning the planting activities 	A Produce Mapping Surveyor is responsible for produce mapping, supervising the establishment of crops, and identifying and treating pests, diseases, weeds and soil fertility issues. The individual is also responsible for developing and	5

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	<ul style="list-style-type: none">• Responsible for scheduling planting activities and determining responsibilities• Responsible for monitoring the production activities• Responsible to identify and treat pest and disease issues• Responsible to identify and treat soil fertility issues• Responsible to identify and treat weed issues• Responsible for assessing the existing farming practices• Responsible for developing sustainability strategies• Responsible for implementing sustainability strategies• Responsible for maintaining the records• Responsible for storing the records safely	implementing sustainable farming strategies.	
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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, training institutions which was collected with respect to roles for which qualification packs development, was to be prioritized. This was largely based on volume of people required, quantitative and qualitative shortfall which the industry feels they face. Governing council of ASCI and Occupational Standards Committee which comprises of experts & senior leaders gave final approval and endorsement for the same.</p> <p>Agriculture is the primary source of livelihood for about 58% of India's population. Gross Value Added by agriculture, forestry, and fishing was estimated at Rs. 19.48 lakh crore (US\$ 276.37 billion) in FY20. Share of agriculture and allied sectors in gross value added (GVA) of India at current prices stood at 17.8 % in FY20. Consumer spending in India will return to growth in 2021 post the pandemic-led contraction, expanding by as much as 6.6%.</p> <p>India's agricultural production has improved significantly. India is now a major producer of many agricultural commodities, fruits, and vegetables. According to the Ministry of Agriculture annual India ranks within top two global producers of rice, wheat, sugarcane, cashew-nut, pepper, cotton, jute, spices, potato, tomato, and tea. As per the Department of Animal Husbandry, Dairying & Fisheries, India is also the world leader in milk production and ranks third in egg production.</p> <p>India is among the world's leaders in terms of production volume for commodities such as rice, wheat, cotton, sugar, horticulture, and dairy. Agriculture and related sectors such as forestry and fisheries account for 20.2 percent of the country's GDP.</p> <p>Agriculture is the largest sector for employment in India</p>
Industry Relevance	<p>Validations have been received from Paradigm Commodity Advisors Pvt Ltd, Shriram Bioseed Genetics, Integrated Facilitation Services, College of Agriculture, UAHS Shivamogga, Sumitomo Chemical India Limited</p>
Usage of the qualification	<p>An NSQF aligned training to the persons involved in grooming of Produce Mapping Surveyor shall provide opportunities to the incumbents for horizontal and vertical career progression.</p> <p>Competency-based training shall imbibe professionalism in the job-role. Being an important and ever-expanding job, the job-role of Produce Mapping Surveyor may well be included in the vocational education stream of school education.</p> <p>An industry-determined specification of performance, sets out the</p>

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	<p>skills, knowledge and attitudes required to operate effectively in employment.</p> <p>For employers, the Produce Mapping Surveyor 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 Produce Mapping Surveyor 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 a like.</p>								
	<p>The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Produce Mapping Surveyor</p>								
Estimated uptake	<table><tr><th>QP/Job Role Name</th><th>"States where Demand exist</th><th>"District where Demand exist</th><th>Projections for the next 3 years</th></tr><tr><td>Produce Mapping Surveyor</td><td>PAN INDIA</td><td>Various Districts</td><td>3000</td></tr></table>	QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years	Produce Mapping Surveyor	PAN INDIA	Various Districts	3000
QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years						
Produce Mapping Surveyor	PAN INDIA	Various Districts	3000						
27	<p>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</p> <p>In-Process</p>								
28	<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</p>								

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	qualification This is the revised version of the already NSQC-approved QP of Produce Mapping Surveyor (NQR- 2019/AGR/ASCI/3260). The revision has been undertaken as the QP is going to expire soon.
29	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 Any institution or individual is welcome to send feedback, which is recorded and considered during the next review cycle. Communication will be sent for any feedback to all the main stakeholders/users one month prior to the review of the qualifications pack. A formal review is scheduled in three years.

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

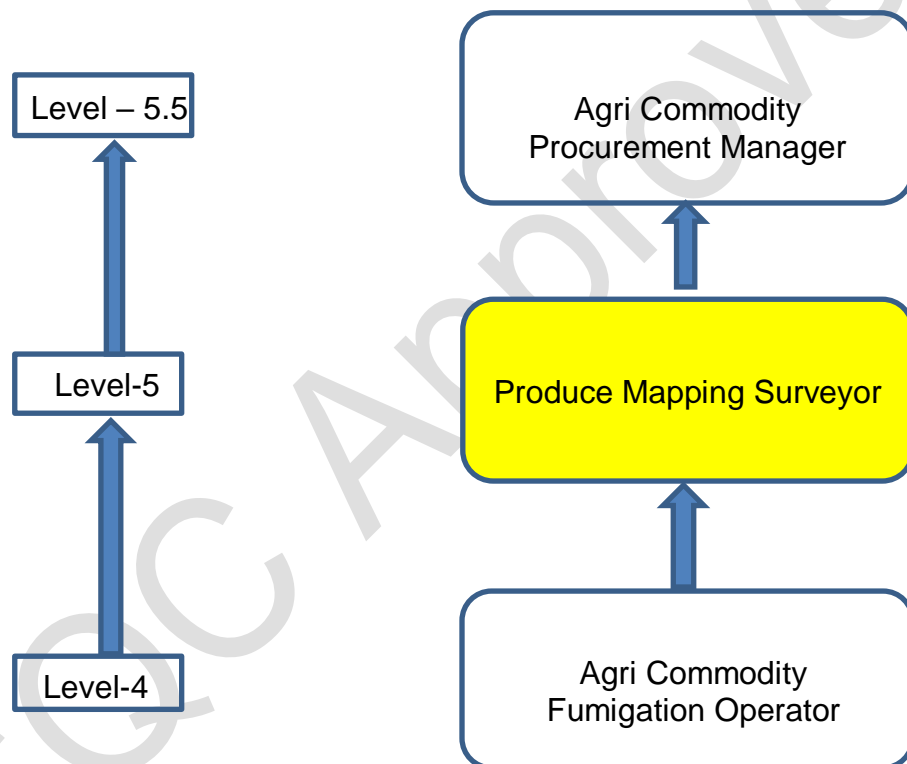
SECTION 4**EVIDENCE OF PROGRESSION****30**

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 Produce Mapping Surveyor



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.