

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-00348-2023-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	Cold Storage Supervisor
2	Qualification Code, if any	AGR/Q7505, v2.0
3	NCO code and occupation	NCO-2015/7127, Post-Harvest Supply Chain 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 supervising cold storage operations to ensure appropriate storage of relevant agricultural and horticultural produce</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	Post-Harvest Supply Chain Management
9	Job description of the occupation	A Cold Storage Supervisor is responsible for supervising cold storage operations to ensure appropriate storage of relevant agricultural and horticultural produce. The individual procures the required resources and supervises the cold storage workers and operations. The person is also responsible for ensuring the maintenance of the cold storage infrastructure.
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	Attached herewith

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qualification			
15	Entry requirements and/or recommendations and minimum age	Completed 2nd year of UG 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 12th grade pass with 2 years of relevant experience 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 19 Years	
16	Progression from the qualification (Please show Professional and academic progression)	Cold Storage Manager (NSQF Level -6)	
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

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		Theory	Practical	
(i)	Introduction (Bridge Module)	05	00	
(ii)	AGR/N7519: Procure the resources required for cold storage operations	40	45	5
(iii)	AGR/N7521: Supervise the cold storage operations and workers	45	45	5
(iv)	AGR/N7520: Ensure the maintenance of cold storage infrastructure	55	35	5
(v)	AGR/N9911: Ensure adherence to health and safety guidelines at work	05	25	6
(vi)	DGT/VSQ/N0103: Employability Skills (90 Hours)	90	00	5
	Total	240	150	
OJT: 120 Hours				

SECTION 1
ASSESSMENT

21	<p>Body/Bodies which will carry out assessment:</p> <p>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?</p> <p>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: Cold Storage Supervisor

Qualification Pack: AGR/Q7505, 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.

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/N7519: Procure the resources required for cold storage operations				
<i>Identify and negotiate with suppliers and place the purchase order</i>	10	13	-	10
PC1. estimate the need for produce, packing material and other resources as per the market needs	-	-	-	-
PC2. identify and collect information about the relevant suppliers marketing the required produce, packing material and their quality	-	-	-	-
PC3. negotiate with the identified suppliers to procure quality resources at a profitable price	-	-	-	-
<i>Select suppliers and procure the required resources</i>	10	13	-	10

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PC4. select the eligible supplier(s) for procuring the required resources in consultation with the cold storage manager, ensuring compliance with the organization's quality standards	-	-	-	-
PC5. carry out appropriate documentation to place the purchase order and timely procure the required resources from the selected supplier(s)	-	-	-	-
PC6. maintain the record of procurement as per the organizational policies	-	-	-	-
<i>Check the procured resources</i>	10	14	-	10
PC7. ensure safe and efficient unloading, handling and storage of resources	-	-	-	-
PC8. check the procured resources to ensure delivery in an appropriate quantity as per the purchase order	-	-	-	-
PC9. examine the quality of procured resources to ensure compliance with the applicable quality standards	-	-	-	-
PC10. coordinate with the supplier to resolve any issues with the quantity and quality of resources	-	-	-	-
NOS Total	30	40	-	30
AGR/N7521: Supervise the cold storage operations and workers				
<i>Allocate work to workers</i>	10	12	-	10
PC1. prepare the work schedule and allocate work to cold storage workers	-	-	-	-
PC2. explain the work requirements to workers and ensure they are aware of the applicable Key Performance Indicators (KPIs) and quality standards	-	-	-	-
PC3. ensure the availability of required tools, equipment, materials and Personal Protective Equipment (PPE) to the cold storage workers, as per the work requirements	-	-	-	-
<i>Monitor the workers and cold storage operations</i>	20	28		20
PC4. monitor the workers during work operations to ensure they complete the assigned tasks, e.g. packing and storing the produce, appropriately	-	-	-	-
PC5. identify the areas of lapses and scope of improvement and provide feedback to the relevant personnel	-	-	-	-

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PC6. support the cold storage workers in performing their duties as per the applicable work requirements and quality standards	-	-	-	-
PC7. identify the need for training and skill enhancement for cold storage workers and arrange relevant training sessions and demonstrations for them accordingly	-	-	-	-
PC8. coordinate with the cold storage manager to resolve out-of-authority issues				
PC9. ensure compliance with the applicable quality and health and safety standards/ procedures	-	-	-	-
PC10. plan and coordinate the incoming goods, storage and dispatch of goods in a timely and efficient manner	-	-	-	-
PC11. examine the fruits and vegetables stored in the cold storage to ensure their quality as per market demands and customer preference	-	-	-	-
PC12. identify issues with the quality of fruits and vegetables and take appropriate remedial measures	-	-	-	-
NOS Total	30	40	-	30
AGR/N7520: Ensure the maintenance of cold storage infrastructure				
<i>Ensure maintenance of machinery and equipment</i>	10	12	-	10
PC1. perform the visual inspection of the cold storage machinery and equipment regularly to ensure they are in working order	-	-	-	-
PC2. identify the repair and maintenance needs of the equipment, such as wear and tear, leakages and malfunctioning	-	-	-	-
PC3. instruct the relevant personnel to carry out regular repair and maintenance of the machinery and equipment, e.g. cleaning, oiling/ greasing, and replacing worn-out components	-	-	-	-
PC4. coordinate with the relevant manufacturer to resolve manufacturing defects or complex issues	-	-	-	-
<i>Ensure maintenance of physical infrastructure</i>	20	28		20

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PC5. conduct a regular visual inspection of the cold storage building infrastructure	-	-	-	-
PC6. identify building infrastructure-related issues, such as the deterioration of cold storage wall insulation or seepage in the walls	-	-	-	-
PC7. instruct the cold storage personnel to carry out repair and maintenance for the issues identified with the building infrastructure	-	-	-	-
PC8. check the drainage system regularly to ensure no blockage and direct the relevant personnel to clear the blockage and carry out its maintenance	-	-	-	-
PC9. ensure cleanliness in and around the cold storage by instructing the maintenance personnel to remove the waste materials and apply the recommended disinfectants	-	-	-	-
PC10. ensure the recommended temperature and humidity levels are maintained in the cold storage	-	-	-	-
PC11. direct the relevant workers to disinfect water through chlorination and filtration before it is distributed to different areas	-	-	-	-
PC12. check the ventilation system for the correct functioning and ensure its regular repair and maintenance	-	-	-	-
PC13. ensure regular maintenance of the air-conditioning system to ensure adequate air circulation with good air quality	-	-	-	-
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	-	-	-	-
PC3. conduct regular checks to ensure that PPE, emergency equipment and first-aid kit are updated and useable	-	-	-	-

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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 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	-	-	-	-

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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	-	-
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	-	-

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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.	-	-	-	-
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	-	-	-	-

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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	-	-	-	-
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: Cold Storage Supervisor			Level: 5
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none">• Process of procuring the resources required for cold storage operations• Process of supervising the cold storage operations and workers• Process of ensuring the maintenance of cold storage infrastructure• Process of ensuring adherence to health and safety guidelines at work	A Cold Storage Supervisor is responsible for supervising cold storage operations to ensure appropriate storage of relevant agricultural and horticultural produce. The individual procures the required resources and supervises the cold storage workers and operations. The person is also responsible for ensuring the maintenance of the cold storage infrastructure	5
Professional knowledge	<ul style="list-style-type: none">• Understand the requirement and benefits of cold storage• Knowledge of agricultural and horticultural produce that require to be stored in a cold storage• Know the relevant documentation to be carried out for procurements• Understand the infrastructural requirements for storing fresh produce• Know the recommended stocking density and spacing for packed vegetables and fruits• Understand the relevant storage techniques• Understand the relevant temperature and humidity requirements in cold storage in different climatic conditions	The job holder is expected to have knowledge of agricultural and horticultural produce that require to be stored in a cold storage, relevant documentation to be carried out for procurements, infrastructural requirements for storing fresh produce, relevant storage techniques, relevant temperature and humidity requirements in cold storage in different climatic conditions, relevant tools, equipment, materials and PPE required for cold storage operations and etc.	5

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	<ul style="list-style-type: none"> • Know the seasonal cold storage management practices • Know the relevant tools, equipment, materials and PPE required for cold storage operations • Know the importance of monitoring the workers during work operations to ensure the quality of work • Know the importance of inspecting the tools, equipment and machinery regularly 		
Professional skill	<ul style="list-style-type: none"> • Estimate the need for produce, packing material and other resources • Negotiate with the identified suppliers to procure quality resources • Carry out appropriate documentation to place the purchase order • Coordinate with the supplier to resolve any issues with the quantity and quality of resources • Prepare the work schedule and allocate work to cold storage workers • Monitor the workers during work operations to ensure they complete the assigned tasks • Coordinate with the cold storage manager to resolve out-of-authority issues • Plan and coordinate the incoming goods, storage and dispatch of goods in a timely and efficient manner 	The job holder is expected to coordinate in estimating the need for produce, packing material and other resources, negotiate with the identified suppliers to procure quality resources, carrying out appropriate documentation to place the purchase order, coordinating with the supplier to resolve any issues with the quantity and quality of resources, preparing the work schedule and allocate work to cold storage workers, monitoring the workers during work operations to ensure they complete the assigned tasks	5
Core Skills	<ul style="list-style-type: none"> • Estimating and procuring the produce, packaging material and other resources in the required quantity for cold storage operations • Supervising the cold storage operations and 	The job holder is expected to estimating and procuring the produce, packaging material and other resources in the required quantity for cold storage operations, supervising the cold storage operations and workers, maintaining the cold	5

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	<p>workers</p> <ul style="list-style-type: none">● Maintaining the cold storage infrastructure, i.e. machinery, equipment and building● Ensuring health and safety at the work and dealing with any emergencies or accidents	<p>storage infrastructure, i.e. machinery, equipment and building, ensuring health and safety at the work and dealing with any emergencies or accidents</p>	
Responsibility	<ul style="list-style-type: none">● Responsible for identifying and negotiate with suppliers and placing the purchase order● Responsible for selecting suppliers and procure the required resources● Responsible for checking the procured resources● Responsible for allocating work to workers● Responsible for monitoring the workers and cold storage operations● Responsible for ensuring maintenance of the machinery and equipment● Responsible for ensuring maintenance of the physical infrastructure● Responsible for ensuring health and safety● Responsible for Deal with emergencies at work	<p>A Cold Storage Supervisor is responsible for supervising cold storage operations to ensure appropriate storage of relevant agricultural and horticultural produce. The individual procures the required resources and supervises the cold storage workers and operations. The person is also responsible for ensuring the maintenance of the cold storage infrastructure</p>	5

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>Supply chain loss in the post-harvest management of agri produce is one of the major determinants of the food problem in India. However, food wastage is not good for two main reasons: firstly, there may be a material loss in terms of energy protein and other nutrients; and secondly, there may be an economic loss in terms of the value of food. The major concern for fresh Agro Supply Chain Management is the post-harvest wastage. India, the world's second-largest fresh agro producer and one of the centers of origin of fresh agro produce, is also one of the biggest food wasters in the world—wasting lots of fresh agro produce (fruits and vegetables) every year. The challenge of feeding India's billion plus people is not really about agriculture and food production but getting the good quality food to the people at the right time. According to various studies and literature available, the most susceptible food category to a lack of cold storage is fruits and vegetables where annual wastage is very high. Controlling the levels of waste is beyond the capability of individual farmers or consumers. The problem is wider and involves various issues in the supply chain of fresh agro produce. The supply chain losses and wastage problems encountered in the agricultural products with special reference to perishable agro produce, i.e., fruits and vegetables.</p>
Industry Relevance	Validations have been received from Asirbadh Hospitality Private Limited, Shriram Bioseed Genetics, Empower Pragati, Sumitomo Chemical India Limited, ANS Tempcontrol Engineers Private Limited

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Usage of the qualification	<p>An NSQF aligned training to the persons involved in grooming of Cold Storage Supervisor 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 Cold Storage Supervisor may 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 Cold Storage Supervisor 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 Cold Storage Supervisor 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>											
	The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Cold Storage Supervisor											
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>Cold Storage Supervisor</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	Cold Storage Supervisor	PAN INDIA	Various Districts	3000
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27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences In-process
28	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 This is the revised version of the already NSQC-approved QP of Cold Storage Supervisor (NQR- 2019/AGR/ASCI/3254). 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

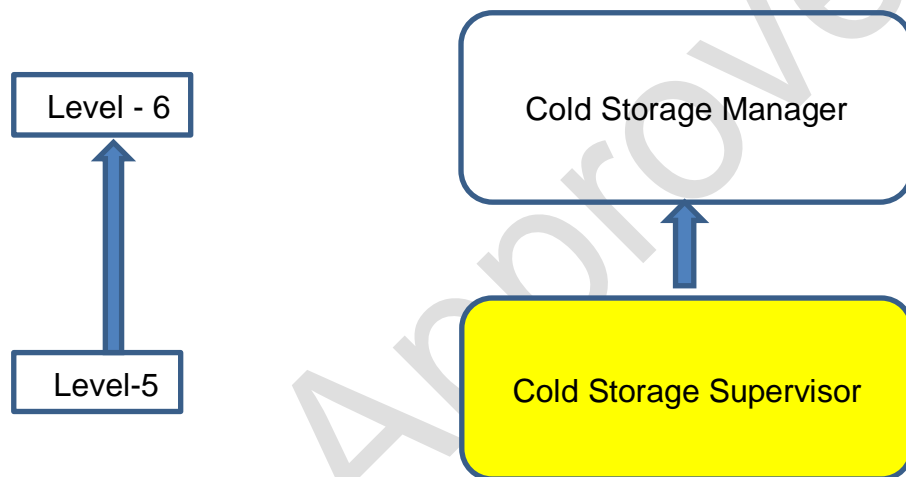
SECTION 4**EVIDENCE OF PROGRESSION****30**

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 Cold Storage Supervisor



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.