

**Qualification Code**

**QG-04-AG-00309-2023-V1.1-ASCI**

**CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE**

**Name and address of submitting body:**

Agriculture Skill Council of India (ASCI)  
6<sup>th</sup> 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**

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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. Affiliation Protocol- Annexure 3
4. Industry Validations- Annexure 4

**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	<b>Qualification Title</b>	Seed Processing Plant Technician
2	<b>Qualification Code, if any</b>	AGR/Q7104, v3.0
3	<b>NCO code and occupation</b>	NCO-2015/NIL
4	<b>Nature and purpose of the qualification (Please specify whether qualification is short term or long term)</b>	<p>Nature of the qualification</p> <ul style="list-style-type: none"> <li>- a Qualification Pack (QP)</li> </ul> <p>The main purpose of the qualification is -</p> <ul style="list-style-type: none"> <li>- to train the incumbent for operating various machineries to improve the quality of seeds. The individual is also responsible for preparing the work area, packing and storing the processed seeds, and maintaining various records relevant to seed processing.</li> </ul>
5	<b>Body/bodies which will award the qualification</b>	Agriculture Skill Council of India (ASCI)
6	<b>Body which will accredit providers to offer courses leading to the qualification</b>	Agriculture Skill Council of India (ASCI)
7	<b>Whether accreditation/affiliation norms are already in place or not , if applicable (if yes, attach a copy)</b>	Yes (Annexure 3)
8	<b>Occupation(s) to which the qualification gives access</b>	Seed Production and Processing
	<b>Job description of the occupation</b>	A Seed Processing Plant Technician is responsible for operating various machineries to improve the quality of seeds. The individual is also responsible for preparing the work area, packing and storing the processed seeds, and maintaining various records relevant to seedprocessing.
10	<b>Licensing requirements</b>	NA
11	<b>Statutory and Regulatory requirement of the relevant sector (documentary evidence</b>	NA

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	to be provided)	
12	<b>Level of the qualification in the NSQF</b>	Level 4
13	<b>Anticipated volume of training/learning required to complete the qualification</b>	390 hours (Theory: 120, Practical: 180, ES: 60, OJT: 30)
14	<b>Indicative list of training tools required to deliver this qualification</b>	Attached herewith
15	<b>Entry requirements and/or recommendations and minimum age</b>	<p>Minimum Educational Qualification: 12th grade pass OR Completed 2nd year of 3-year diploma (after 10th) and pursuing regular diploma OR 10th grade pass plus 2-year NTC OR 10th grade pass plus 1-year NTC plus 1 year NAC OR 8th pass plus 2-year NTC plus 1-Year NAC plus CITS OR 10th grade pass and pursuing continuous schooling OR 10th Grade Pass with 2-year relevant experience OR Previous relevant Qualification of NSQF Level 3.0 with minimum education as 8th Grade pass with 3- year relevant experience OR Previous relevant Qualification of NSQF Level 3.5 with 1.5- year relevant experience Min Age: 18 years</p>
16	<b>Progression from the qualification (Please show Professional and academic progression)</b>	Seed Analysis In-Charge (L5)
17	<b>Arrangements for the Recognition of Prior learning(RPL)</b>	<p>RPL assessment will be as per normal ASCI assessment process.</p> <p>(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</p>

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		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	<b>International comparability where known (research evidence to be provided)</b>	Not done as yet		
19	<b>Date of planned review of the qualification.</b>	30-12-2024		
20	<b>Formal structure of the qualification Mandatory components</b>			
	<b>Title of component and identification code/NOSs/Learning outcomes</b>	<b>Estimated size (learning hours)</b> Theory      Practical		<b>Level</b>
(i)	Introduction (Bridge Module)	5	0	4
(ii)	AGR/N7115 Prepare the work area and machineries for seed processing	20	35	
(iii)	AGR/N7117 Operate the seed processing machineries to process the seed	30	60	
(iv)	AGR/N7122 Pack, weigh and store the seed	30	60	
(v)	AGR/N7118 Record and maintain the seed processing data	15	15	
(vi)	AGR/N9903 Maintain health and safety at the workplace	20	10	
(vii)	DGT/VSQ/N0102: Employability Skills (60 Hours)	60		
	<b>Total</b>	<b>180</b>	<b>180</b>	
	<b>OJT</b>	<b>30 Hours</b>		

**SECTION 1**  
**ASSESSMENT**

21	<p><b>Body/Bodies which will carry out assessment:</b></p> <p>ASCI affiliated assessment bodies.</p> <ol style="list-style-type: none"><li>1. SHL India (Pvt.) Ltd</li><li>2. Trendsetters Skill Assessors Pvt Ltd</li><li>3. Mercer-Mettl</li><li>4. SP Institute of Workforce Development(SPIWD)</li><li>5. MSAG SI LLP</li></ol> <p>More Assessment Agencies are being empanelled to cover wider geographical area</p>
22	<p><b>How will RPL assessment be managed and who will carry it out?</b></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><b>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.</b></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"><li>a. An offline Tablet based test through the use of Multiple Choice Text and Picture based questions in vernacular languages</li><li>b. Actual demonstration on the field</li><li>c. Viva</li></ol>

	<p><b>ASCI's assessment strategy:</b></p> <ul style="list-style-type: none"> <li>• Question sets are developed as per the weightage of each NOS of the Qualification Pack.</li> <li>• Assessment criteria for each Qualification Pack developed, in which each Performance criteria (PC) assigned marks based on NOS</li> <li>• Question Bank is developed to assess the theoretical and practical knowledge. To ensure the quality, each trainees get different set of question</li> <li>• Empanelment of subject matter expert as assessor primarily from the Industry to assess trainee specifically on practical skills as per Industry demands</li> </ul> <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:**

<b>Outcomes to be assessed/ NOSs to be assessed</b>	<b>Assessment criteria for the outcome</b>
<b>Means of assessment 1</b>	
<b>Pass/Fail</b>	

**Job Role:** Seed Processing Plant Technician

**Qualification Pack:** AGR/Q7104, v3.0

**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.

AGR/N7115: Prepare the work area and machineries for seed processing					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare the work area for seed processing</i>		<b>12</b>	<b>24</b>		<b>18</b>
PC1.	clean the seed processing area to remove dust and any other waste materials	-	-	-	-
PC2.	use the recommended treatment to sanitise the area and remove pests and rodents	-	-	-	-
PC3.	ensure the area has good air-circulation and lighting	-	-	-	-
PC4.	ensure the availability of electricity for operating the seed processing machineries	-	-	-	-
PC5.	plug any water leakages and ensure the floor is dry	-	-	-	-
PC6.	carry out minor infrastructural repair and maintenance in the work area	-	-	-	-
PC7.	arrange the necessary tools, equipment and Personal Protective Equipment (PPE)	-	-	-	-
<i>Prepare the seed processing machineries</i>		<b>18</b>	<b>16</b>		<b>12</b>
PC8.	select the appropriate machineries such as cleaner,	-	-	-	-

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	scalper, air screen cleaner, specific gravity separator, treater according to the seed processing required				
PC9.	examine the machineries for any wear and tear or damage	-	-	-	-
PC10.	carry out minor repair and maintenance of the machineries	-	-	-	-
PC11.	co-ordinate with the manufacturer for any complex repair and maintenance needs	-	-	-	-
PC12.	maintain the record of the repair and maintenance of the machineries	-	-	-	-
PC13.	ensure there are appropriate conditions for operating the machineries as recommended by the manufacturer	-	-	-	-
<b>NOS Total</b>		<b>30</b>	<b>40</b>		<b>30</b>
<b>AGR/N7117: Operate the seed processing machineries to process the seeds</b>					
<i>Prepare for seed processing</i>		<b>6</b>	<b>8</b>		<b>4</b>
PC1.	weigh the seeds received at the seed processing plant	-	-	-	-
PC2.	assess the level of impurities in the seeds	-	-	-	-
PC3.	segregate the seeds in different lots according to the shape, structure, colour and moisture content	-	-	-	-
PC4.	apply labels on the seed lots for the purpose of identification	-	-	-	-
PC5.	ensure that the seed lots don't have admixture from other seed lots	-	-	-	-
PC6.	store the seeds maintaining the required temperature and relative humidity	-	-	-	-
<i>Pre-clean the seeds</i>		<b>6</b>	<b>6</b>		<b>8</b>
PC7.	carry out winnowing using winnowing trays or by dropping the seeds through a stream of wind onto a clean area to separate heavy and light materials	-	-	-	-
PC8.	set up the scalper screen or drum at the recommended inclination as per the manufacturer's instructions	-	-	-	-
PC9.	feed raw seeds onto the scalper at the recommended rate to removes large debris, straw, leaves and chaf	-	-	-	-
PC10.	operate the de-awner to remove awns, beards, tips or glumes on seeds	-	-	-	-
PC11.	regulate the rotation speed of the de-awner shaft and adjust the distance between the beaters and the discharge shutter in the de-awner to minimise damage to the seeds	-	-	-	-
<i>Clean the seeds</i>		<b>6</b>	<b>8</b>		<b>6</b>
PC12.	select an air-screen cleaner with flat screens/ a rotary air-screen cleaner with cylindrical screens according to	-	-	-	-



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	the quantity and type of seeds				
PC13.	install the air-screen cleaner with the screen containing perforations of appropriate specifications according to the variety of seeds to be cleaned	-	-	-	-
PC14.	carry out aspiration using an aspirator to remove light particles from the seeds	-	-	-	-
PC15.	use combination of screens with varying specification of perforations according to the type of seeds	-	-	-	-
PC16.	monitor the screens for even distribution during the screening process	-	-	-	-
PC17.	replace the worn-out or damaged screens				
	<i>Fine clean the seeds</i>	4	6		4
PC18.	select indented cylinders of the appropriate capacity according to the quantity of seeds	-	-	-	-
PC19.	feed seeds through the inlet of the indented cylinder	-	-	-	-
PC20.	operate the indented cylinder to separate the small and broken seeds from the larger seeds	-	-	-	-
PC21.	adjust the feed rate to achieve good quality of seeds and optimum performance of the indented cylinder	-	-	-	-
PC22.	carry out fine cleaning to remove coarse impurities, sand, stones, under and over-sized seeds	-	-	-	-
PC23.	collect the larger seeds from the outlet of the indented cylinder	-	-	-	-
	<i>Grade the seeds</i>	6	8		6
PC24.	select a gravity separator with a triangular deck for separating light seeds or a rectangular deck for separating heavy seeds	-	-	-	-
PC25.	install the gravity separator as per the manufacturer's instructions	-	-	-	-
PC26.	adjust the angle of inclination of the deck, deck oscillation speed, supply of pressurised air according to the type of seed	-	-	-	-
PC27.	feed seeds onto the deck in a steady stream for a uniform spread over the deck surface	-	-	-	-
PC28.	adjust the side tilt, end raise and eccentric speed to achieve machine efficiency	-	-	-	-
PC29.	collect the separated seeds discharged through the collecting spouts fixed at the end of the deck	-	-	-	-
	<i>Optimise resource utilisation</i>	2	4		2
PC30.	optimise usage of water/electricity/ materials in various tasks/ activities/ processes	-	-	-	-

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PC31.	connect electrical tools and equipment safely and turn off when not in use	-	-	-	-
	<b>NOS TOTAL</b>	<b>30</b>	<b>40</b>		<b>30</b>
<b>AGR/N7122: Pack, weigh and store the seeds</b>					
	<i>Pack and weigh the seeds</i>	<b>8</b>	<b>10</b>		<b>8</b>
PC1.	arrange seed bags of appropriate capacity according to the type of seeds	-	-	-	-
PC2.	check that the seed bags conform to the applicable regulatory packaging requirements	-	-	-	-
PC3.	examine the seed bags for any damage and replace if required	-	-	-	-
PC4.	fill in the seed bags with the processed seeds ensuring no damage to the seeds	-	-	-	-
PC5.	weigh the seed bags to ensure correct weight as printed on the bags	-	-	-	-
PC6.	apply seal and relevant labels on the seed bags ensuring accuracy of the label information	-	-	-	-
	<i>Prepare the storage area</i>	<b>8</b>	<b>12</b>		<b>8</b>
PC7.	check the storage at the plant has the required temperature, air circulation and humidity levels for the storage of seeds	-	-	-	-
PC8.	apply the necessary treatment in the storage area to remove any pest/ insects/ rodents	-	-	-	-
PC9.	ensure the storage area is free of any water leakage	-	-	-	-
PC10.	clean the storage area to remove all dust, waste and hazardous materials	-	-	-	-
PC11.	ensure the availability of appropriate material for the safe storage of seeds such as wooden platforms, racks, crates, etc.	-	-	-	-
	<i>Store the seed bags</i>	<b>6</b>	<b>8</b>		<b>6</b>
PC12.	stack the seed bags in the correct way, ensuring that weight pressure does not cause damage to the seeds	-	-	-	-
PC13.	maintain appropriate spacing between the seed bags	-	-	-	-
PC14.	store bags of different seed types separately	-	-	-	-
PC15.	handle seed bags ensuring no damage to the packing material	-	-	-	-
	<i>Perform waste management</i>	<b>8</b>	<b>10</b>		<b>8</b>
PC16.	segregate waste into different categories	-	-	-	-
PC17.	dispose non-recyclable waste appropriately	-	-	-	-
PC18.	deposit recyclable and reusable material at the identified location	-	-	-	-

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	NOS Total	30	40		30
<b>AGR/N7118: Record and maintain the seed processing data</b>					
	<i>Maintain the record of operations</i>	20	25		20
PC1.	record the seed supplier details, date of receipt of seed lots, weight, quality along with other relevant details in the physical registers and/ or the organisation's Enterprise Resource Planning (ERP) system	-	-	-	-
PC2.	record the data of seeds found unfit for processing and returned to the supplier	-	-	-	-
PC3.	document details regarding the use of various machineries used during seed processing such as output and breakdown	-	-	-	-
PC4.	record details with respect to the different types of seeds processed, batch size, wastage of seeds, etc.	-	-	-	-
PC5.	maintain record of the relevant observations and deviations	-	-	-	-
PC6.	maintain the record of seeds packed, labelled and stored	-	-	-	-
PC7.	create backup of the data to protect against accidental loss	-	-	-	-
	<i>Review and audit the records</i>	10	15		10
PC8.	review the records to ensure accuracy of the information	-	-	-	-
PC9.	co-ordinate with the relevant personnel for the audit of the records to ensure compliance with the regulatory requirements	-	-	-	-
	NOS Total	30	40		30
<b>AGR/N9903: Maintain health and safety at the workplace</b>					
	<i>Maintain personal hygiene</i>	10	5		10
PC1.	wash hands, legs and face with soap/alcohol-based sanitizer at reasonable intervals	-	-	-	-
PC2.	wash the worn clothes with soap and sun-dry before use next time	-	-	-	-
PC3.	ensure the face is covered with mask or three layers of cloth-piece	-	-	-	-
PC4.	follow the workplace sanitisation norms including distancing from sick people	-	-	-	-
	<i>Maintain 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	-	-	-	-

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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	-	-	-	-
PC12.	recognize risks to bystanders and take required action to reduce the risks	-	-	-	-
PC13.	work in a manner which minimizes 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 necessary immediate action to reduce further danger	-	-	-	-
PC15.	follow government / workplace advisories in case of outbreak of any disease/disaster	-	-	-	-
<b>Administer appropriate emergency procedures</b>		<b>15</b>	<b>5</b>		<b>10</b>
PC16.	follow procedures for dealing with accidents, fires and emergencies, including communicating location and directions to the location of emergency, as per the workplace requirements	-	-	-	-
PC17.	use emergency equipment in accordance with manufacturer's specifications and workplace requirements	-	-	-	-
PC18.	provide 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	-	-	-	-
<b>NOS Total</b>		<b>40</b>	<b>25</b>		<b>35</b>

<b>DGT/VSQ/N0102: Employability Skills (60 Hours)</b>					
	<i>Introduction to Employability Skills</i>	1	1	-	-
<b>PC1.</b>	identify employability skills required for jobs in various industries	-	-	-	-
<b>PC2.</b>	identify and explore learning and employability portals	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
<b>PC3.</b>	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.	-	-	-	-
<b>PC4.</b>	follow environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	2	4	-	-
<b>PC5.</b>	recognize the significance of 21st Century Skills for employment	-	-	-	-
<b>PC6.</b>	practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
	<i>Basic English Skills</i>	2	3	-	-
<b>PC7.</b>	use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
<b>PC8.</b>	read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
<b>PC9.</b>	write short messages, notes, letters, e-mails etc. in English	-	-	-	-
	<i>Career Development &amp; Goal Setting</i>	1	2	-	-
<b>PC10.</b>	understand the difference between job and career	-	-	-	-
<b>PC11.</b>	prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-

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	<i>Communication Skills</i>	2	2	-	-
PC12.	follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13.	work collaboratively with others in a team	-	-	-	-
	<i>Diversity &amp; Inclusion</i>	1	2	-	-
PC14.	communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15.	escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
	<i>Financial and Legal Literacy</i>	2	3	-	-
PC16.	select financial institutions, products and services as per requirement	-	-	-	-
PC17.	carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18.	identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19.	identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
	<i>Essential Digital Skills</i>	3	4	-	-
PC20.	operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21.	use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22.	use basic features of word processor, spreadsheets, and presentations	-	-	-	-
	<i>Entrepreneurship</i>	2	3	-	-
PC23.	identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24.	develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25.	identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-

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	<i>Customer Service</i>	<b>1</b>	<b>2</b>	-	-
<b>PC26.</b>	identify different types of customers	-	-	-	-
<b>PC27.</b>	identify and respond to customer requests and needs in a professional manner.	-	-	-	-
<b>PC28.</b>	follow appropriate hygiene and grooming standards	-	-	-	-
	<i>Getting ready for apprenticeship &amp; Jobs</i>	<b>2</b>	<b>3</b>	-	-
<b>PC29.</b>	create a professional Curriculum vitae (Résumé)	-	-	-	-
<b>PC30.</b>	search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
<b>PC31.</b>	apply to identified job openings using offline /online methods as per requirement	-	-	-	-
<b>PC32.</b>	answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
<b>PC33.</b>	identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
	<b>NOS Total</b>	<b>20</b>	<b>30</b>	-	-

**NSQF QUALIFICATION FILE****Approved in 14<sup>th</sup> NSQC Meeting – NCVET – 30<sup>th</sup> December 2021****Approved on file dated 07.02.2023****SECTION 2****EVIDENCE OF LEVEL****OPTION B**

Title/ Name of qualification/ component: Seed Processing Plant Technician			Level: 4
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none"><li>• Prepare the work area for seed processing</li><li>• Prepare the seed processing machineries</li><li>• Prepare for seed processing</li><li>• Pre-clean the seeds</li><li>• Clean the seeds</li></ul>	A Seed Processing Plant Technician is responsible for operating various machineries to improve the quality of seeds. The individual is also responsible for preparing the work area, packing and storing the processed seeds, and maintaining various records relevant to seed processing.	4
Professional knowledge	<ul style="list-style-type: none"><li>• Review and audit the records</li><li>• Mentor apprentice</li><li>• Practice inclusion at the workplace</li><li>• Administer appropriate emergency procedures</li></ul>	The job holder is expected to have knowledge of seed production processes, types of machineries used for processing seeds, maintenance of process equipment, bagging techniques, methods to track records from finished products to raw materials, quality parameters and quality assessment based on physical parameters. The job holder is required to calculate the process time for effective utilization of machineries and manpower, ensure that the label contains all important information about the seed.	4
Professional	<ul style="list-style-type: none"><li>• Optimise resource utilisation</li></ul>	The job holder is expected to carry out routine	4



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skill	<ul style="list-style-type: none"><li>• Perform waste management</li><li>• Effective communication at the workplace</li><li>• Maintain personal hygiene</li><li>• Maintain clean and safe workplace</li></ul>	activities in a narrow range of application, using appropriate rule and tool. The job holder has to receive seed in the processing plant, check the quality of raw seeds by verifying the quality analysis report and assessing its physical parameters, operate seed processing machineries, ensure collection of processed seeds from processing area, procure bags for bagging of seeds, fill the bag with seeds to an exact weight, using a weighing scale, and as advised by the department supervisor, label seed bags ensure complete processing records are maintained, monitor storage of processed seeds, ensure preservation of seed viability during storage..	
Core Skills	<ul style="list-style-type: none"><li>• Maintain the record of operations</li><li>• Pack and weigh the seeds</li><li>• Prepare the storage area</li><li>• Store the seed bags</li></ul>	The job holder is expected to have basic arithmetic skills and a basic understanding of political and natural environment. For instance, s/he should be able to maintain record of observations related to seeds (if any), report malfunction/discrepancies/concerns in machineries to department supervisor for immediate action, ensure that complete processing records are maintained to trace the seed from the time it is received at the plant till storage, calculate process time for effective utilization of machineries and manpower.	4
Responsibility	<ul style="list-style-type: none"><li>• operating various machineries to improve the quality of seeds</li><li>• preparing the work area</li><li>• packing and storing the processed</li></ul>	The job holder is responsible for preparation and maintain work area for seed processing, prepare and maintain process machineries. and tools for seed processing, plan equipment utilization for	4

## NSQF QUALIFICATION FILE

Approved in 14<sup>th</sup> NSQC Meeting – NCVET – 30<sup>th</sup> December 2021

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	<ul style="list-style-type: none"><li>• seeds</li><li>• maintaining various records relevant to seed processing</li></ul>	seed processing, organize raw seeds and equipment for seed processing, operate seed processing machineries, package processed seeds, store the processed seeds, document and maintain records of process parameters, document and maintain records of processed seeds, perform safety and hygiene related functions, maintain hygiene during storage and labelling.	
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## NSQF QUALIFICATION FILE

Approved in 14<sup>th</sup> NSQC Meeting – NCVET – 30<sup>th</sup> December 2021

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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?			
<b>Basis</b>				
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 &amp; senior leaders gave final approval and endorsement for the same.</p> <p>India is still at a nascent stage, with the average farm power availability in the country lower than in countries such as Korea, Japan and the US. Though, India is one of the top countries in agricultural production, in terms of farm mechanization, it is behind the world average.</p>			
Industry Relevance	Validations have been received from Zuari Agro Chemicals Ltd, Seedworks International Pvt. Ltd, Ananya Seeds Pvt Ltd, Shakti Vardhak Hybrid Seeds Private Limited, DCM Shriram Ltd, Shriram Bioseeds Genetics,			
Usage of the qualification	<p>An NSQF aligned training to the persons involved in grooming of <b>Seed Processing Plant Technician</b> 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,</p> <p>The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Seed Processing Plant Technician.</p>			
Estimated uptake	QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years

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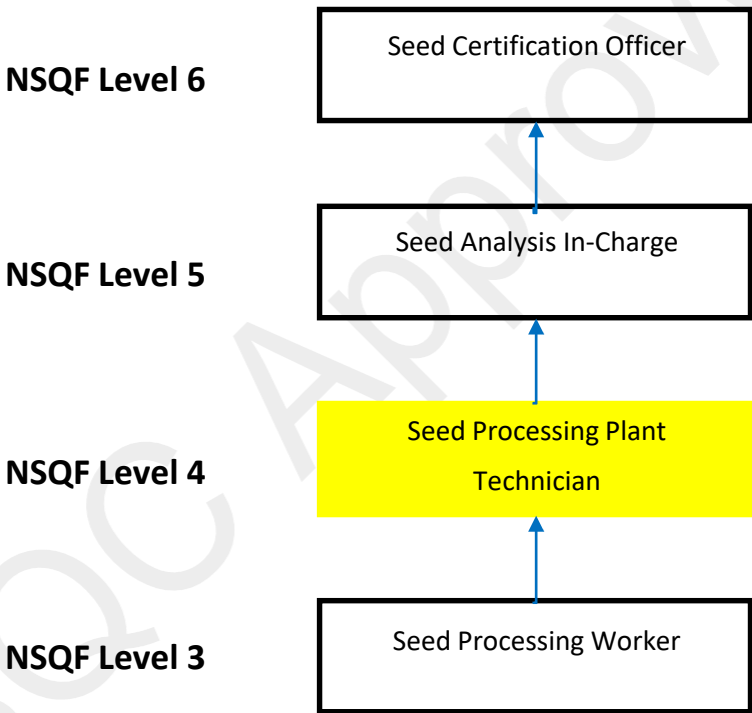
	Seed Processing Plant Technician	MADHYA PRADESH, ANDHRA PRADESH, PUNJAB, HARYANA, UTTAR PRADESH, MAHARASHTRA AND ASSAM	Various district of mentioned States	3000
27	<b>Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences</b> Have received concurrence from the M&T Division, MoA & FW			
28	<b>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</b>  This is the revised version of the already NSQC approved QP. The revision has been undertaken as the QP is going to expire soon.			
29	<b>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</b>  Any institution or individual is welcome to send the feedback, which is recorded and considered during 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 year.			

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	<p><b>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?</b>  <b><i>Show the career map here to reflect the clear progression</i></b></p> <p>Career path in the agriculture sector is generally in terms of activities done &amp; ownership of responsibility because they are primarily self- wage employment/ entrepreneurship roles.</p> <p><b>Annexure 1: Career Map of Seed Processing Plant Technician</b></p>  <pre> graph BT     A[Seed Processing Worker] --&gt; B[Seed Processing Plant Technician]     B --&gt; C[Seed Analysis In-Charge]     C --&gt; D[Seed Certification Officer]             </pre> <p>The diagram illustrates a career progression path for a Seed Processing Plant Technician. It is structured as a vertical flowchart with four levels, each represented by a rectangular box. The boxes are connected by upward-pointing blue arrows, indicating the progression from a lower level to a higher one. The levels are labeled on the left side of the diagram: NSQF Level 3, NSQF Level 4, NSQF Level 5, and NSQF Level 6. The boxes contain the following titles: Seed Processing Worker (at Level 3), Seed Processing Plant Technician (at Level 4, highlighted in yellow), Seed Analysis In-Charge (at Level 5), and Seed Certification Officer (at Level 6).</p>
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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.