

Qualification Code

QG-05-AG-00315-2023-V1.1-ASCI

CONTACT DETAILS OF THE BODY SUBMITTING THE QUALIFICATION FILE

Name and address of submitting body:

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

Name and contact details of individual dealing with the submission

Name: Ms Priyanka Prakash

Position in the organisation: Senior Manager – Standards & QA

Address, if different from above

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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

SUMMARY

1	Qualification Title	Aquatic Animal Health Lab Supervisor
2	Qualification Code, if any	AGR/Q4911, v3.0
3	NCO code and occupation	NCO-2015/NIL
4	Nature and purpose of the qualification (Please specify whether qualification is short term or long term)	<p>Nature of the qualification</p> <ul style="list-style-type: none"> - a Qualification Pack (QP) <p>The main purpose of the qualification is -</p> <ul style="list-style-type: none"> - to train the incumbent for overseeing the laboratory operations with respect to experiments on the health of aquatic animals. The individual is also responsible for managing the lab inventory and ensuring compliance with all the safety and regulatory protocols.
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	Aquaculture
9	Job description of the occupation	An Aquatic Animal Health Lab Supervisor is responsible for overseeing the laboratory operations with respect to experiments on the health of aquatic animals. The individual is also responsible for managing the lab inventory and ensuring compliance with all the safety and regulatory protocols.
10	Licensing requirements	NA
11	Statutory and Regulatory requirement of the relevant	NA

	sector (documentary evidence to be provided)	
12	Level of the qualification in the NSQF	Level 5
13	Anticipated volume of training/learning required to complete the qualification	480 hours (Theory: 120, Practical: 210, ES: 90, OJT: 60)
14	Indicative list of training tools required to deliver this qualification	Attached herewith
15	Entry requirements and/or recommendations and minimum age	<p>Minimum Educational Qualification: 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 pass with 1-year Vocational Education & training (NTC or NAC or CITS) OR Completed 3-year diploma after 10th with 1-year relevant experience OR 12th Grade pass with 2- year relevant experience OR 10th Grade pass with 4-year relevant experience OR Previous relevant Qualification of NSQF Level 4 and with minimum education as 8th Grade pass with 3-year relevant experience OR Previous relevant Qualification of NSQF Level 4.5 with 1.5- year relevant experience Min Age: 20 years</p>
16	Progression from the qualification (Please show Professional and academic progression)	Hatchery Manager
17	Arrangements for the Recognition of Prior learning(RPL)	<p>RPL assessment will be as per normal ASClassessment process.</p> <p>(ASCI recognizes that there may be candidates who have prior learning experience in the Agriculture Sector and</p>

		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.	31-03-2025			
20	Formal structure of the qualification Mandatory components				
	Title of component and identification code/NOSs/Learning outcomes	Estimated size (learning hours) Theory Practical		Level	
(i)	Introduction (Bridge Module)	5	0		
(ii)	AGR/N4939: Supervise the preparation of lab and lab equipment	25	60	5	
(iii)	AGR/N4940: Supervise the laboratory operations	20	70		
(iv)	AGR/N4967: Maintain the periodic data of the aquatic animal health lab	30	30		
(v)	AGR/N9923: Manage and lead a team effectively	20	10		
(vi)	AGR/N4918: Ensure health, hygiene and safety during culture operations	20	40		
(vii)	DGT/VSQ/N0103: Employability Skills (90 Hours) v1.0	90			
	Total	210	210		
	OJT	60 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 each Performance criteria (PC) assigned marks based on NOS • 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

Means of assessment 1**Pass/Fail****Job Role:** Aquatic Animal Health Lab Supervisor**Qualification Pack:** AGR/Q4911, 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/N4939: Supervise the preparation of lab and lab equipment					
PC	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	<i>Supervise the preparation of lab</i>	16	24		18
PC1.	ensure the availability of the required lab and Personal Protective Equipment (PPE) along with other resources such as computer system, chemicals, etc.	-	-	-	-

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PC2.	instruct the lab assistant to sterilize the lab with the appropriate disinfect and set up various lab equipment for use	-	-	-	-
PC3.		-	-	-	-
PC4.	arrange for safe disposal of expired chemicals, reagents, microbiological media and other lab waste in compliance with the applicable regulations and industry requirements	-	-	-	-
PC5.	ensure microbiological and safety hazards are identified in the lab and necessary preventive or remedial measures are taken	-	-	-	-
	<i>Supervise the calibration and maintenance of the lab equipment</i>	14	16		12
PC6.	identify the relevant lab equipment to be used for the aquatic animal health experiments	-	-	-	-
PC7.	instruct the lab assistant to calibrate the lab equipment in accordance with the tolerances prescribed by the manufacturer	-	-	-	-
PC8.	coordinate with the equipment manufacturer for the calibration of equipment requiring expert assistance	-	-	-	-
PC9.	ensure the calibrated equipment are labelled appropriately for the purpose of identification	-	-	-	-
PC10.	ensure the lab personnel follow the laboratory procedures while handling the lab tools, equipment, dead weights, measuring jars and reagents	-	-	-	-
PC11.	supervise the testing of the lab equipment to ensure they are in working condition	-	-	-	-
PC12.	arrange for the malfunctioning, worn-out or damaged lab equipment and accessories to be repaired or replaced	-	-	-	-
PC13.	co-ordinate with the maintenance service provider to ensure maintenance of all the lab equipment as per their maintenance schedule	-	-	-	-
NOS Total		30	40		30
AGR/N4940: Supervise the laboratory operations					
	<i>Supervise various lab experiments and research projects</i>	12	12		12

PC1.	ensure the availability of the instructional materials and supplies required for the research project	-	-	-	-
PC2.	supervise the diagnostics operations and targeted research projects in the lab	-	-	-	-
PC3.	supervise the formulation of the aquatic animal disease management plan				
PC4.	develop standardized diagnostic tests for designated pathogens	-	-	-	-
PC5.	ensure the pathogen detection test results are accurate and consistent	-	-	-	-
PC6.	ensure the laboratory testing of aquatic animals is conducted as per the applicable national and international animal health standards and regulations	-	-	-	-
PC7.	undertake relevant research to improve the disease detection techniques and control methods in aquatic animals	-	-	-	-
PC8.	supervise various tests at the lab such as pH, salinity, oxygen, ammonium, nitrate, nitrite, alkalinity, hardness in the water, pH and electrical conductivity of the soil, etc.	-	-	-	-
PC9.	instruct the lab assistant to prepare microbiological plates and slants	-	-	-	-
PC10.	supervise the preparation of slides for the histological study of aquatic animal cells and tissues	-	-	-	-
PC10.	record the lab experiments data in logbooks and the relevant computer application	-	-	-	-
PC11.	instruct the lab assistant to sanitise the lab equipment after use	-	-	-	-
PC12.	ensure compliance with all the applicable regulations related to health, safety and handling of aquatic animals	-	-	-	-
PC13.	ensure records relating to the health of aquatic animals before and after the experiments are maintained in logbooks and the relevant computer application	-	-	-	-
PC14.	prepare the research project reports based on the data collected during various experiments	-	-	-	-
PC15.	analyse the project reports and provide scientific advice on the matters relating to the health of aquatic animals	-	-	-	-
	<i>Supervise the maintenance of live specimens and stock cultures</i>	8	10		8

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PC16.	ensure the stock culture and live specimens of aquatic animals are maintained as per the laboratory protocols for experimental purposes	-	-	-	-
PC17.	ensure the water quality is maintained as per the defined quality standards	-	-	-	-
	<i>Maintain the lab inventory</i>	4	6		4
PC18.	check the stock of lab supplies regularly	-	-	-	-
PC19.	identify the relevant vendors and order the lab supplies as per the requirement	-	-	-	-
PC20.	Ensure stock buffer of reagents and microbiological media is maintained in the lab	-	-	-	-
PC21.	maintain the manual and/ or electronic record of the purchase of lab supplies in the physical registers and/ or the relevant computer application	-	-	-	-
	<i>Optimise resource utilisation</i>	2	4		2
PC22.	use water, electricity and other resources optimally in various tasks and processes and ensure the lab personnel do the same	-	-	-	-
PC23.	connect the electrical tools and equipment safely and turn them off when not in use, ensuring others also follow the same practice	-	-	-	-
PC24.	arrange for any water leakages to be plugged to prevent its wastage	-	-	-	-
	<i>Perform and ensure effective waste management</i>	2	4		2
PC25.	ensure the waste is segregated into appropriate categories	-	-	-	-
PC26.	arrange for recycling and safe disposal of different types of waste in compliance with the applicable regulations	-	-	-	-
	<i>Promote inclusion at work</i>	2	4		2
PC27.	adopt gender-neutral behaviour at work and encourage the co-workers to follow the same	-	-	-	-
PC28.	promote an inclusive environment for Persons with Disabilities (PwD) at work	-	-	-	-
	NOS TOTAL	30	40		30
	AGR/N4967: Maintain the periodic data of the aquatic animal health lab				
	<i>Record the periodic data of the aquatic animal health lab</i>	15	20		15

PC1.	record the periodic data of the animal health lab concerning the lab experiments and research projects	-	-	-	-
PC2.	ensure the data is recorded in the approved format manually and electronically using the physical registers and the relevant computer software	-	-	-	-
PC3.	follow the organisational guidelines to record the aquatic animal health lab periodic data at the scheduled intervals	-	-	-	-
PC4.	check the accuracy of data, identify discrepancies and take appropriate measures to ensure the correctness of the data	-	-	-	-
PC5.	maintain the backup of the recorded data to protect against accidental loss	-	-	-	-
	<i>Evaluate and review the data and record the progress</i>	15	20		15
PC6.	evaluate the recorded data to get insights and draw appropriate conclusions	-	-	-	-
PC7.	prepare the relevant reports concerning the data evaluation as per the organisational requirements	-	-	-	-
PC8.	review the data with the relevant stakeholders to identify the scope of improvement in the aquatic animal health lab operations and the need for new experiments and research projects	-	-	-	-
PC9.	maintain records concerning the agreed actions as per the data review	-	-	-	-
PC10.	monitor and record the progress of the initiated action or project after the review to determine its effectiveness	-	-	-	-
	NOS TOTAL	30	40		30
	AGR/N9923: Manage and lead a team effectively				
	<i>Manage the team performance</i>	12	18	-	12
PC1.	prepare a work plan according to the tasks and the number of available team members	-	-	-	-
PC2.	allocate tasks to the team members according to their skills and roles	-	-	-	-
PC3.	arrange the necessary support and resources to help the team members perform their duties	-	-	-	-

PC4.	conduct regular team meetings/ briefings to communicate with the team members regarding their work objectives, projects, work progress, etc.	-	-	-	-
PC5.	monitor the performance of each team member and progress of the tasks assigned to them	-	-	-	-
PC6.	collect the team performance data and prepare the necessary reports	-	-	-	-
PC7.	evaluate the reports to identify the scope of improvement	-	-	-	-
PC8.	assist the team members with poor performance in improving their performance	-	-	-	-
PC9.	arrange for reward and recognition for the team members with good performance	-	-	-	-
PC10.	arrange for relevant training and upskilling of the team members for their professional development	-	-	-	-
	<i>Maintain a fair and professional work environment</i>	10	16	-	8
PC11.	maintain professional relationships with the team members	-	-	-	-
PC12.	conduct counselling sessions to resolve conflicts among the team members and guide them regarding their professional development	-	-	-	-
PC13.	communicate with the team members to understand their concerns and find appropriate solutions	-	-	-	-
PC14.	ensure equal and fair career progression opportunities for all the team members	-	-	-	-
	<i>Promote inclusion at work</i>	8	6	-	10
PC15.	ensure a conducive environment for all the genders at the workplace	-	-	-	-
PC16.	encourage appropriate behaviour and conduct with people across genders	-	-	-	-
PC17.	ensure appropriate verbal and non-verbal communication while interacting with Persons with Disabilities (PwD)	-	-	-	-
PC18.	ensure equal participation of PwD and people across genders in workplace discussions	-	-	-	-

	NOS Total	30	40	-	30
	AGR/N4918: Ensure health, hygiene and safety during culture operations				
	<i>Ensure the upkeep of water body, tools and equipment</i>	10	12	-	8
PC1.	ensure the necessary practices are followed to protect the aquaculture farm and dykes from erosion and natural calamities such as flood and storms	-	-	-	-
PC2.	ensure protection of the cultured organisms from water/ air/ fomite borne diseases and contamination from handling	-	-	-	-
PC3.	identify and eliminate common predators and preying organisms from the water body	-	-	-	-
PC4.	ensure fences are erected to protect the water body from external threats	-	-	-	-
PC5.	restrict the entry of unauthorised persons into the aquaculture area	-	-	-	-
PC6.	follow the recommended practices to prevent the escape of cultured organisms from the culture pond/ tank	-	-	-	-
PC7.	conduct regular tests to ensure the appropriate soil and water quality parameters are maintained in the water body	-	-	-	-
PC8.	ensure all the nets, vessels, tools and equipment are cleaned and de-contaminated regularly	-	-	-	-
	<i>Maintain personal hygiene and safety</i>	10	12	-	12
PC9.	ensure basic safety checks are undertaken before the operation of any tools and equipment	-	-	-	-
PC10.	ensure the use of relevant Personal Protective Equipment (PPE) during various aquaculture operations	-	-	-	-
PC11.	use the recommended soap/ sanitiser to sanitise the hands and ensure the other personnel also use it	-	-	-	-
PC12.	follow the standard procedures to deal with accidents and emergencies	-	-	-	-

PC13.	use the first-aid kit to provide appropriate treatment in case of any injuries	-	-	-	-
PC14.	co-ordinate with the emergency services for further medical attention	-	-	-	-
	<i>Maintain the health of cultured organisms</i>	10	16	-	10
PC15.	follow the recommended prophylactic measures and ensure hygienic conditions during all the stages of growth of the cultured organisms	-	-	-	-
PC16.	examine the cultured organisms regularly to detect the symptoms of parasites, pathogenic infections, phenotypic disorders, etc.	-	-	-	-
PC17.	ensure the necessary medicines/chemicals are applied as per prescription, maintaining the toxicity levels within the prescribed limits	-	-	-	-
PC18.	use the recommended therapeutic practices in combination with the prescribed treatment for the speedy recovery of the diseased organisms	-	-	-	-
PC19.	identify a quarantine area and arrange for the diseased organisms to be quarantined and treated	-	-	-	-
PC20.	co-ordinate with an expert to deal with unexpected disease outbreak among the cultured organisms	-	-	-	-
PC21.	ensure timely removal of the dead and moribund organisms from the water body	-	-	-	-
PC22.	arrange for safe disposal of the dead and diseased organisms	-	-	-	-
	NOS TOTAL	30	40		30

DGT/VSQ/N0103: Employability Skills (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	-	-	-	-

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<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, 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	-	-	-	-
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	-	-
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 behaviour 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	-	-	-	-

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<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 openings 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	-	-

SECTION 2 EVIDENCE OF LEVEL**OPTION B**

Title/ Name of qualification/ component: Aquatic Animal Health Lab Supervisor			Level: 5
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Process	<ul style="list-style-type: none"> Supervise the preparation of lab Supervise the calibration and maintenance of the lab equipment Supervise various lab experiments and research projects 	An Aquatic Animal Health Lab Supervisor is responsible for overseeing the laboratory operations with respect to experiments on the health of aquatic animals. The individual is also responsible for managing the lab inventory and ensuring compliance with all the safety and regulatory protocols.	5
Professional knowledge	<ul style="list-style-type: none"> The importance and process of sterilising the lab and the lab tools and equipment using an appropriate disinfect Maintain clean and safe workplace 	The job holder is expected to have knowledge of types of chemicals, materials and equipment required for the cleaning and maintenance, cleaning methods for all equipments, supplier/manufacture's instructions related to cleaning and maintenance of equipments, equipment maintenance and calibration, organization's guidelines on stock culture, organization's procedures on maintenance of lab inventory, ethical guidelines for maintaining experimental animals, standard guidelines for maintaining log books. Also,	5

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Title/ Name of qualification/ component: Aquatic Animal Health Lab Supervisor			Level: 5
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
		the job holder is expected to clean and maintain the cleanliness of the work area using approved sanitizers/disinfectants and keep it free from dust, waste, and spillage, dispose waste materials as per defined SOPs.	
Professional skill	<ul style="list-style-type: none">• Optimise resource utilisation• Perform waste management• Maintain personal hygiene	The job holder should be able to possess a range of cognitive and practical skills required to prepare various microbiological plates and slants, various methods of processing and preparing the culture plates, dispose the waste safely and ways of recycling it.	5
Core Skills	<ul style="list-style-type: none">• Supervise the maintenance of live specimens and stock cultures• own job role and responsibilities and sources for information pertaining to work• safe disposal methods for waste• Maintain the lab inventory	<p>The job holder should be able to process, read equipment manuals to understand the equipments operation and process requirement, read internal information documents given by internal teams, read instructions on using and handling of sanitizers/disinfectants/chemicals, discuss task lists, schedules and activities with the supervisor, effectively communicate with the team members, attentively listen and comprehend the information given by the speaker.</p> <p>The job holder should record the stocks, identify the vendors, maintain the buffers and maintain the lab stock register, various methods of safe disposal of waste</p>	5

NSQF QUALIFICATION FILE**Approved in 17th NSQC Meeting-NCVET- Dated- 31/03/2022****Approved on file dated 07.02.2023**

Title/ Name of qualification/ component: Aquatic Animal Health Lab Supervisor			Level: 5
NSQF Domain	NSQF Domain	NSQF Domain	NSQF Domain
Responsibility	<ul style="list-style-type: none">• Overseeing the laboratory operations• Managing the lab inventory• Ensuring compliance with all the safety and regulatory protocols.• Managing the lab equipment as per prescribed	An Aquatic Animal Health Lab Supervisor is responsible for overseeing the laboratory operations with respect to experiments on the health of aquatic animals. The individual is also responsible for managing the lab inventory and ensuring compliance with all the safety and regulatory protocols, ensuring maintenance of all lab tools and equipment as per their maintenance schedule, calibrating the lab equipment in accordance with the tolerances prescribed by the manufacturer	5

SECTION 3**EVIDENCE OF NEED**

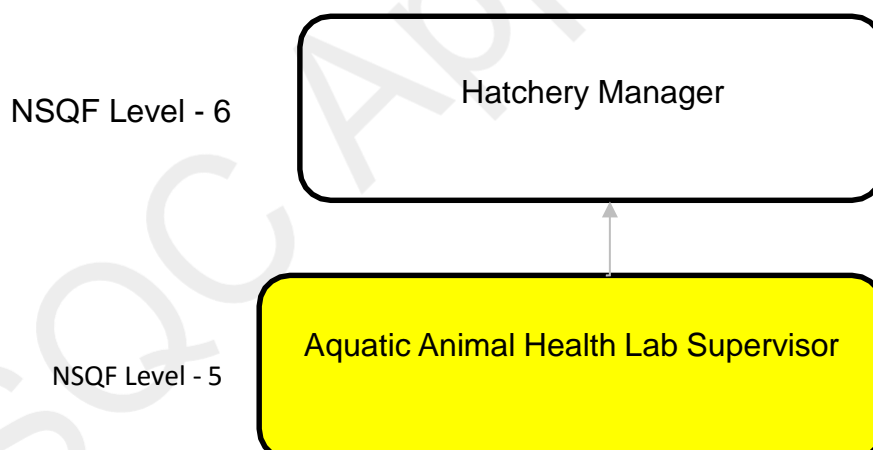
26	What evidence is there that the qualification is needed? What is the estimated uptake of this qualification and what is the basis of this estimate?
Basis	
Need of the qualification	<p>While collecting data from the companies for the occupational map, we also took feedback from industry, training institutions 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>Fisheries and aquaculture contribute to 0.79 percent to the National GDP and 4.39 percent to agriculture and allied activities. Marine Fisheries contributes to food security and provides direct employment to over 1.5 million fishermen besides others indirectly dependent on this sector. Fisheries and allied sector is transforming into an industry at a fast pace and hence there is a demand for skilled human resource for the development of standard products and services within this sector. The existing potential for production within this sector is expected to rise with increased contribution of the fisheries sector to food and nutritional security.</p>
Industry Relevance	<p>Validations have been received from CIFA, Professor KUFOS, Central Agricultural University (Imphal), Krishi Vigyan Kendra Thoubal, SAU- Najaji Deshmukh Veterinary Science University, Central Marine Fisheries Research Institute.</p>
Usage of the qualification	<p>An NSQF aligned training to the persons involved in grooming of Aquatic Animal Health Lab 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 Aquatic Animal Health Lab Supervisor may well be included in the vocational education stream of school education.</p> <p>The Qualification Pack shall also be helpful in conducting Recognition of Prior Learning of the Aquatic Animal Health Lab Supervisor</p>

Estimated uptake	QP/Job Role Name	"States where Demand exist	"District where Demand exist	Projections for the next 3 years
	Aquatic Animal Health Lab Supervisor	Kerala, Karnataka, Tamil Nadu, Odisha, Andhra Pradesh, Maharashtra, Goa, Jharkhand and West Bengal	Various district of mentioned States	2000
27	Recommendation from the concerned Line Ministry of the Government/Regulatory Body. To be supported by documentary evidences Have received concurrence from the Ministry of Fisheries, Animal Husbandry and Dairying			
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. 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 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 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	<p>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</p> <p>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.</p> <p>Annexure 1: Career Map of Aquatic Animal Health Lab Supervisor</p>  <pre> graph BT A[Aquatic Animal Health Lab Supervisor NSQF Level - 5] --> B[Hatchery Manager NSQF Level - 6] </pre> <p>The diagram illustrates a career progression path. At the bottom, a yellow rounded rectangle represents the 'Aquatic Animal Health Lab Supervisor' role, associated with 'NSQF Level - 5'. An upward-pointing arrow leads to a white rounded rectangle at the top, representing the 'Hatchery Manager' role, associated with 'NSQF Level - 6'.</p>
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Give the titles and other relevant details of the document(s) here. Include page references showing where to find the relevant information.