



QUALIFICATION FILE – Micro Credentials

Fundamentals of Animal Vaccination

☒ Public ☐ Private

☒ Upskilling ☐ Dual/Flexi Qualification ☒ For ToT ☒ For ToA

☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 4

Submitted By:

Agriculture Skill Council of India

Unit No. 101, First Floor, Greenwoods Plaza, Block 'B', Greenwoods City, Sector 45, Gurugram -122009, Haryana.

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Section 1: Basic Details

1.	Micro Credential-Qualification Name	Fundamentals of Animal Vaccination																
2.	Sector/s	Agriculture																
3.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval.)	NM-04-AG-04181-2025-V1-ASCI & version-1	4. NCrf/NSQF Level: 4															
5.	Brief Description of the Micro Credential	This OS unit is about practicing vaccination in livestock, promotion of animal health, and delivering effective livestock extension services by paraprofessionals. It also emphasizes on disease prevention, reducing antimicrobial resistance, and minimizing zoonotic disease risks. Additionally, it also covers communication skills, workplace resilience, and collaboration with livestock health partners for improved animal care and productivity.																
6.	Eligibility Criteria for Entry for Students/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience <table><tr><th>S. No.</th><th>Academic/Skill Qualification (with Specialization - if applicable)</th><th>Relevant Experience (with Specialization - if applicable)</th></tr><tr><td>1</td><td>12th or equivalent</td><td></td></tr><tr><td>2</td><td>10th Grade Pass</td><td>3-year of relevant experience in livestock management/Animal Welfare & Health</td></tr><tr><td>3</td><td>Previous relevant Qualification of NSQF Level 3.5</td><td>1.5-year of relevant experience in livestock management/Animal Welfare & Health</td></tr><tr><td>4</td><td>Previous relevant Qualification of NSQF Level 3</td><td>3-yearof relevant experience in livestock management/Animal Welfare & Health</td></tr></table> b. Age: 18		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Relevant Experience (with Specialization - if applicable)	1	12th or equivalent		2	10th Grade Pass	3-year of relevant experience in livestock management/Animal Welfare & Health	3	Previous relevant Qualification of NSQF Level 3.5	1.5-year of relevant experience in livestock management/Animal Welfare & Health	4	Previous relevant Qualification of NSQF Level 3	3-yearof relevant experience in livestock management/Animal Welfare & Health
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7.	Credits Assigned to this Qualification, Subject to Assessment (<i>as per National Credit Framework (NCrF)</i>)	1	8. Common Cost Norm Category (I/II/III) (<i>wherever applicable</i>): I															
9.	Any Licensing Requirements/ Pre-requisites for Undertaking Training (<i>wherever applicable</i>)	NA																
10.	Expected Outcomes of the Micro Credential	Terminal learning outcomes are: • Identify healthy animals • Exhibit proficiency in handling and administration of vaccines • Follow established vaccination protocols accurately • Build collaborative partnerships with cattle owners and livestock health professionals																
11.	Training Duration by Modes of Training Delivery (<i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i>)	☒ Offline Only ☐ Online Only ☐ Blended <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Training Delivery Mode</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>20</td><td>10</td><td>30</td></tr> <tr> <td>Online</td><td></td><td></td><td></td></tr> </tbody> </table> (Refer Blended Learning Annexure for Details)					Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	20	10	30	Online			
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Online																		
12.	Assessment Criteria	<table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Theory (Marks)</th><th>Practical (Marks)</th><th>Project (Marks)</th><th>Viva (Marks)</th><th>Total (Marks)</th><th>Passing %age</th></tr> </thead> <tbody> <tr> <td>35</td><td>30</td><td></td><td>35</td><td>100</td><td>70</td></tr> </tbody> </table>					Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age	35	30		35	100	70
Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age													
35	30		35	100	70													
13.	Is the Qualification Amenable to Persons with Disability	☒ Yes ☐ No If “Yes”, <i>specify applicable type of Disability: LD, SHI</i>																
14.	How participation of women will be encouraged?	Endeavour to include women in the batches																
15.	Other Indian Languages in which the Micro Credential will be implemented.	Hindi																

16.	Is similar Micro Credential Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:	
17.	Name and Contact Details Submitting / Awarding Body SPOC	Name: Purnambica.K Email: standards@asci-india.com Website: www.asci-india.com Contact No.: 0124-4670029	
18.	NSQC Approval Date: 08-05-2025	19. Validity Duration: 3 Years post NSQC Approval	20. Next Review Date: 08-05-2028

Section 2: Training Related

1.	Trainer's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Diploma (Veterinary/Animal Husbandry /Dairying) with 5 years of relevant training or industry experience in Animal Welfare & Health OR Graduate (B. V. Sc.) with 1-year of relevant industry or training experience in Animal Welfare & Health OR Post Graduate (M. V Sc. / MSc (Animal science))
2.	Master Trainer's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	5 years of training experience in Animal Welfare & Health after Diploma (Veterinary/Animal Husbandry /Dairying) and 5 years of relevant industry experience in Animal Welfare & Health OR 5 years of training experience in Animal Welfare & Health after Graduation (B. V. Sc.) and 1-year industry experience in Animal Welfare & Health OR Post Graduate (M. V Sc. / MSc (Animal science))
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>

Section 3: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Graduate (B. V. Sc.) with 2 year of relevant experience in Animal Welfare & Health OR Post Graduate (M. V Sc. / MSc (Animal science) with 1-year relevant industry experience
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Diploma/Graduate (It is mandatory for a proctor to have technical knowledge/IT knowledge Once a proctor has been on-boarded by any AA, they are oriented about skill ecosystem along with do's and don'ts .)
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Post Graduate (M. V Sc. / MSc (Animal science) with 10 years of relevant experience in Animal Welfare & Health
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Mode: ☐ Online Only ☒ Offline Only ☐ Blended
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 4: Evidence of Need of the Micro Credential

As per the NCVET Guidelines for evidence of need, provide the required Annexure/Supporting documents.

1.	Government /Industry initiatives/ requirement (Yes/No): Yes
2.	Number of Industry validation provided: 5
3.	Estimated number of people to be trained: 2000

Section 5: Annexure Check List

Specify Annexure Number and Name.

1.	Annexure: NCrf/NSQF level justification based on NCrf Level/NSQF descriptors <i>(Mandatory)</i>	Annexure 1
2.	Annexure: Learning Outcomes and Assessment Criteria <i>(Mandatory)</i>	Annexure 2
3.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Annexure 3
4.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory – Except in case of online course)</i>	Annexure 4
5.	Annexure: Blended Learning <i>(Mandatory in case selected mode of delivery is “Blended Learning”)</i>	NA
6.	Annexure: Acronym and Glossary <i>(Optional)</i>	Annexure 7

Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	Understanding government livestock health programs - Knowledge of livestock diseases - Anatomy of domestic animals - Health condition assessment of various animals	Involves a factual and theoretical understanding of animal anatomy, disease identification, and vaccination needs. The knowledge supports routine yet non-routine processes in disease prevention.	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	Identification and quality assessment of vaccines - Following vaccination schedules - Appropriate handling and administration techniques	Requires selective application of technical knowledge and vaccine-specific procedures. Uses well-developed technical skills in familiar contexts, with some adaptability to variations.	4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	- Decision-making during ethical animal handling - Following pre/post-vaccination protocols - Monitoring and reporting animal responses	Demonstrates problem-solving and decision-making in familiar but potentially variable situations (e.g., post-vaccination monitoring). Shows readiness for employment with awareness of responsibility and ethics.	4
Broad Learning Outcomes/Core Skill	- Record-keeping, communication and collaboration - Ability to adapt, interpret new information, and resolve minor conflicts	Shows basic language, communication, numeracy, and digital skills, required for record-keeping, collaboration, and adapting to minor workplace issues. Displays ability to work independently and with others.	4
Responsibility	- Reporting to authorities - Ensuring animal welfare and vaccine efficacy - Conflict resolution and collaboration	Takes responsibility for own work with limited supervision. Expected to ensure ethical handling, accuracy in procedures, and effective communication.	4

Annexure 2: Learning Outcomes and Assessment Criteria

Detailed learning outcomes and assessment criteria for the qualification are as follows:

S. No.	Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Basics of animal health and vaccination</i>		10	5		10
	PC1. Assess the role of vaccinators in executing Livestock Health and Disease Control programs initiated by State and Central Governments.				
	PC2. Identify critical livestock diseases that require vaccination in the field and report occurrences to the relevant authorities.				
	PC3. Analyse the anatomy of different domestic animal species concerning appropriate vaccination sites.				
	PC4. Differentiate the health status of Cattle, Buffalo, Sheep, Goat, Pig, Poultry, and Duck, distinguishing between healthy and diseased conditions.				
<i>Handling and methods of Vaccine administration</i>		11	15		10
	PC 5. Identify the different types of vaccines				
	PC 6. follow vaccination schedules for various livestock species.				
	PC 7. Assess the quality of vaccines and the procedures for quality control.				
	PC 8. Choose proper handling, storage, transportation, and distribution methods of vaccines to maintain their efficacy.				
	PC9. Practice various vaccination methods in animals while ensuring adherence to ethical considerations during the vaccination process.				
<i>Protocols of vaccination</i>		10	5		10
	PC10. follow the necessary steps and precautions before and after vaccination to ensure animal safety and vaccine effectiveness.				

	PC11. record the post-vaccination response in animals, identifying any abnormal signs or reactions.				
	PC12. Assist in disease surveillance by monitoring the vaccinated animals				
	PC 13 report any adverse reactions to the appropriate authorities.				
	<i>Collaboration and partnership with cattle owners /livestock health professionals</i>	4	5		5
	PC14. Demonstrate respectful, reciprocal, and sensitive communication while interacting with others.				
	PC15. Collaborate with individuals from diverse backgrounds, disciplines, and sectors to build effective partnerships.				
	PC16. interpret new information, adapt to changing conditions, and address unexpected challenges in the workplace.				
	PC17. resolve minor conflicts effectively and overcome difficulties.				
Total Marks		35	30		35

Annexure 3: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

1. Assessment System Overview

In Agriculture Sector it is of ultimate importance that individuals dealing with crop production or livestock have the requisite knowledge and competencies to undertake the task. Based on the Assessment Criteria, SSC in association with empanelled AAs, define the test structure for the given job roles to cover the required skills and competencies. Assessment strategy consists of the following:

1. Multiple Choice Questions : To assess basic knowledge (Objective/Subjective)
2. Viva : To assess awareness on processes (Oral and/or written questioning)
3. Practical : To evaluate skills and identify competencies.(Observation)

Assessments for knowledge and awareness on processes may be conducted through 'real time' internet based evaluation or by conducting the same 'offline' through TABs. Skills and competencies are to be assessed by conducting 'practical' on ground through qualified and ToA certified assessors.

While it is important that an individual has adequate knowledge and skills to perform a specific task, weight age for different aspects for assessment are given as follows:

Multiple Choice Questions: 20%-30%, depending on the specific QP

Viva: 20%

Practical: 50% - 60% (Involves demonstrations of applications and presentations of procedures/tasks and other components)

Assessment will be carried out by certified assessors through empanelled assessment partners. Based on the results of assessment; ASCI will certify the learners/candidates

2. Testing Environment

Assessments are conducted on laptops, Mobiles and android tablets via both offline and online mode depending on the internet connectivity at assessment location.

In remote locations/villages, assessments get delivered through tablets without the requirement of Internet.

- Multilingual assessments (ASCI is conducting assessments in 13 + languages pan India)
- Rubric driven assessments in Practical/Viva sections and responses recorded accordingly
- All responses, data, records and feedback stored digitally on cloud
- Advanced auto-proctoring features – photographs, time-stamp, geographic-tagging, toggle-screen/copy-paste disabled, etc.
- Android based monitoring system
- End to end process from allocation of a batch to final result upload, there is no manual intervention
- Assessment will normally be fixed for a day after the end date of training / within 7 days of completion of training.
- Assessment will be conducted at the training venue
- Room where assessment is conducted will be set with proper seating arrangements with enough space to curb copying or other unethical activities
- Question bank of theory and practical will be prepared by ASCI /assessment agency and approved ASCI. Only from approved Question Bank assessment

agency will prepare the question paper. Theory testing will include multiple choice questions, pictorial question, etc. which will test the trainee on his theoretical knowledge of the subject.

- The theory, practical and viva assessments will be carried out on same day. In case of more number of candidates, number of assessors and venue facilitation be increased and facilitated

Assessment			
Assessment Type	Formative or Summative	Strategies	Examples
Theory	Summative	MCQ/Written exam	Knowledge of facts related to the job role and functions. Understanding of principles and concepts related to the job role and functions
Practical	Summative	Structured tasks/Demonstration	Practical application /Demonstration /Application tasks
Viva	Summative	Questioning and Probing	Mock interviews on usability of job roles/advantages /importance of adherence to procedures. Viva will be used to gauge trainee's confidence and correct knowledge in handling job situation

The question paper pre-loaded in the computer /Tablet and it will be in the language as requested by the training partner.

3. Assessment Quality Assurance framework

Assessment Framework and Design:

Based on the Assessment Criteria, SSC in association with AAs will define the test structure for the given roles to cover the required skills and competencies. ASCI offer a bouquet of tools for multi- dimensional evaluation of candidates covering language, cognitive skills, behavioral traits and domain knowledge.

Theoretical Knowledge - Item constructs and types are determined by theoretical understanding of the testing objectives and published research about the item-types and constructs that have shown statistical validity towards measuring the construct. Test item types which have been reported to be coachable are not included. Based on these, items are developed by domain experts. They are provided with comprehensive guidelines of testing objectives of each question and other quality measures.

Type – Questions based on Knowledge Required, Case-based practical scenario questions and automated simulation based questions.

Practical Skills - The practical assessments are developed taking into consideration two aspects: what practical tasks is the candidate expected to perform on the job and what aspects of the job cannot be judged through theoretical assessments. The candidates shall be asked to perform either an entire task or a set of subtasks depending on the nature of the job role

Type – Standardized rubrics for evaluation against set of tasks in a demo/practical task

Viva Voce - Those practical tasks which cannot be performed due to time or resource constraints are evaluated through the viva mode. Practical tasks are backed up with Viva for thorough assessment and complete evaluation

Type – Procedural questions, do's and don'ts, subjective questions to check understanding of practical tasks.

Assessor has to go through orientation program organized by Assessment Agency. The training would give an overview to the assessors on the overall framework of QP evaluation. Assessor shall be given a NOS and PC level overview of each QP as applicable. Overall structure of assessment and objectivity of the marking scheme will be explained to them. The giving of marks will be driven by an objective framework which will maintain standardization of marking scheme.

4. Type of Evidence and Evidence Gathering Protocol:

During the assessment the evidences collected by AAs and ASCI are:

- Geo Tagging to track ongoing assessment
- AA's coordinator emails the list of documents and evidences (photos and videos) to the assessor one day prior to the assessment. List is mentioned below:
 - Signed Attendance sheet
 - Assessor feedback sheet
 - Candidate feedback sheet
 - Assessment checklist for assessor
 - Candidate Aadhar/ID card verification
 - Pictures of classroom, labs to check the availability of adequate equipment's and tool to conduct the training and assessment
 - Pictures and videos of Assessment, training feedback and infrastructure.
- Apart from the Assessor, Technical assistant popularly known as Proctor also ensures the proper documentation and they verify each other's tasks.
- To validate their work on the day of assessment, regular calls and video calls are done.
- On-boarding and training of assessor and proctor is done on timely basis to ensure that quality of the assessment should be maintained.

- Training covers the understanding of QP, NSQF level, NOS and assessment structure

5. *Methods of Validation*

- Morning Check (Pre-Assessment): Backend team of AA calls and confirms assessor/technical spoc event status. Assessor/Technical spoc are instructed to reach the centre on time by 9:30 AM / as decided with TC and delay should be highlighted to the Training Partner in advance.
- Video Calls: Random video calls are made to the technical spoc/assessor so as to keep check on assessment quality and ensure assessment is carried out in fair and transparent manner
- Aadhar verification of candidates
- Evening Check (Post Assessment): Calls are made to the ground team to ensure event is over by what time and the documentation is done in proper manner or not.
- TP Calling: To keep check on malpractice activity, independent audit team calls to TP on recorded line to take confirmation if there was any malpractice activity observed in assessment on part of AA/SSC team. If calls are not connected, email is send to TP Spoc for taking their confirmation
- Video and Picture Evidence: Backend team collects video and pictures for assessment on real time basis and highlights any issue like, Students sitting idle/trainer allowed for helping out candidates during assessment.
- Surprise Visit: Time to time SSC/AA Audit team can visit the assessment location and do surprise audit for assessment process carried out by ground team.
- Geo Tagging: On day of assessment, each technical spoc is required to login in our internal app which is Geo tagged. Any deviation with centre address needs to be highlighted to assessment team on real-time basis.

Method for assessment documentation, archiving, and Access:

- ASCI has fully automated result generation process in association with multiple AAs
- Theory, Practical and Viva marks forms the basis of the results and encrypted files generated to avoid data manipulation. All responses captured and stored in System with Time-Stamps at the end of AAs and SSC. NOS-wise and PC-wise scores can be generated.
- Maker Checker concept: 1 person prepares results and other audit result which is internally approved by AA at first and then gets vetted at the end of SSC
- All soft copy of documents is received from the on-ground tech team over mail. The same are downloaded by our internal backend team and saved in Repository. The repository consists of scheme wise folders. These scheme wise folders have job role specific folders. These specific folders have Year wise and Month wise folders where all documents are saved in Batch specific folders. All Hard copies are filed and stored in storeroom.
- **Result Review & Recheck Mechanism –**
- Time stamped assessment logs
- Answer/Endorsement sheets for each candidate
- Attendance Sheet
- Feedback Forms: Assessor feedback form, Candidate feedback form, TP feedback form

- The results for each of the candidate shall be stored and available for review (retained for 5 years/ till conclusion of project or scheme)

Annexure 4: Tools and Equipment

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Thermometer (digital/mercury)	Qty	2
2	Animal Anatomy Charts/Models	Qty	3-4
3	Protective gloves	Pair	30
4	Apron	Qty	5
5	Disinfectants (alcohol/ iodine)	Qty	1
6	Insulated vaccine boxes	Qty	1
7	Vaccine carriers with ice packs	Qty	1
8	Syringes (disposable)	Qty	5
9	Needles of various gauges	Qty	5
10	Vaccination gun	Qty	2
11	Restraining tools (Rope, Ped/Movable Trevis)	Qty	2
12	Cotton swabs	Qty	1 pack
13	antiseptic solution	Qty	1

Classroom Aids:

The aids required to conduct sessions in the classroom are:

1. White board
2. Marker
3. Overhead projector
4. Laptop
5. Internet access

Annexure 5: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	CCS, NIAH, GOI	Dr. Ashwini Kumar singh	Joint commissioner	Baghpat, UP	8449844385	Ashwini.kumar.niah@gov.in	
2	Indian Veterinary Research Institute (IVRI)	Dr Amit Kumar Dohare	Veterinary Surgeon	IVRI, Izatnagar, Bareilly (U.P.)	7089081982	yogeshbangar07@gmail.com	
3	Central Cattle Breeding Farm	Dr. V. K. Patil	Joint commissioner	Suratgarh	8280040838	Suratgarh-ccbf@nic.in	
4	DUVASU	Dr. Desh Deepak Singh	Professor & Head, Veterinary pathology	College of veterinary science & AH, Mathrua		drdd2005@gmail.com	
5	Acharya Narendra Deva University of Agriculture and Technology	Dr.Jitendra pratap singh	Professor & Head	College of Veterinary Science and Animal Husbandry, Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya	9450590970	-	

Annexure 6: Training Details

Training Projections:

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2024-25			
2025-26	1000		
2026-27	1000		

Data to be provided year-wise for next 3 years.

Annexure 7: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities based on their main economic function, product, service or technology.