





# **QUALIFICATION FILE**

# **Artificial Insemination Technician**

$oxtimes$ Short Term Training (STT) $\Box$ Long Term Training (LTT) $\Box$ Apprenticeship
$\square$ Upskilling $\square$ Dual/Flexi Qualification $\square$ For ToT $\square$ For ToA
oxtimes General $oxtimes$ Multi-skill (MS) $oxtimes$ Cross Sectoral (CS) $oxtimes$ Future Skills $oxtimes$ 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.	Qualification Name	Artificial Insemination Technician	
2.	Sector/s	Agriculture	
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has	NQR Code & version of existing qualification:	Qualification Name of existing/previous version:
	Electives/Options	2022/AGR/ASCI/06533 & Version 3.0	Artificial Insemination Technician
	□ OEM		
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA NA	
5.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval)	QG-04-AG-03414-2024-V2-ASCI	6. NCrF/NSQF Level: 4
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate	
8.	Brief Description of the Qualification	Insemination Technician in rural India (M preferably selected from his/her own common management of dairy animals. He/she normal of any registered development / private Technician needs to work under the direct of	Technician) also known as Multipurpose Artificial AITRIs), Gopalmitra, Pranibandhu, etc. is a person unity, primarily to assist farmers in cattle breeding and ally works under the direct supervision and monitoring / producer-led agency. An Artificial Insemination r distant supervision of a registered veterinarian while y Services under the provision of the Indian Veterinary
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience:	

		b. Ag	<b>e:</b> 17								
		S. No. Academic/Skill Qualification (with Specialization - if applicable)					Required Experience (with Specialization - if applicable)				
			1		equivalent	п аррпсаві	e) Sp	ecialization - II appli	.abiej		
			2	10th Cl			3 Vear o	3 Year of relevant experience in			
			_	1001101			Agricultu	ure and allied sectors akho/ Gopal Mitra/MA	or as		
			3	Previo	is NSQF Level 3	.5	Agricultu	of relevant experier are and allied sectors akho/ Gopal Mitra/MA	or as		
			A			Agricultu	3 Year of relevant experience in Agriculture and allied sectors or as pashu sakho/ Gopal Mitra/MAITRIs				
10.	Credits Assigned to this Qualification, Subject to Assessment (as per	Min: 13	3				11. Common Co	st Norm Category (I/	'II/III) (wherever		
	National Credit Framework (NCrF))	Max:14	Max:14 applicable): I								
12.	Any Licensing requirements for Undertaking Training on This  Qualification (wherever applicable)	NA									
13.	Training Duration by Modes of Training Delivery (Specify Total	⊠Offli	ne 🗆 Onl	ine □B	lended						
	<b>Duration</b> as per selected training delivery modes and as per requirement of	Tra	ining Deli	very	Theory	Practical	TLO	OJT	Total		
	the qualification)		Modes		(Hours)	(Hours)	Mandatory (Hours)	Recommended (Hours)	(Hours)		
		Classr	oom (offl	ine)	170	160	60		390		
		Online	_								
		(Refer B	lended Lea	rning Ani	nexure for details	)					
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-20	)15/6121.	0500							
15.	<b>Progression path after attaining the qualification</b> (Please show Professional and Academic progression)	Artificial Insemination Technician (L4), Artificial Insemination Supervisor (L5)									
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi									

					D
Αþ	provea	in 41" N	SQC ivieeting	g dated 17"	December 2024

QUALIFICATION FILE - STT

Qualification Code: QG-04-AG-03414-2024-V2-ASCI

17.	Is similar Qualification(s) available on NQR-if yes, justification for	☐ Yes ☑ No URLs of similar Qualifications:	
	this qualification		
18.	Is the Job Role Amenable to Persons with Disability	⊠ Yes □ No	
		If "Yes", specify applicable type of Disability: SHI	
19.	How Participation of Women will be Encouraged	Batches specific to women will be formed	
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify	⊠ Yes □ No	
	the NOS/Module which covers it)	DGT/VSQ/N0102 (v1.0)	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ⊠ Yes □ No Colleges ⊠ Yes □ No	
22.	Name and Contact Details of Submitting / Awarding Body SPOC	Name: Mr Srikanth Pampana	
	(In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Email: Standards@asci-india.com	Contact No.: 0124-4670029
		Website: www.asci-india.com	
23.	Final Approval Date by NSQC: 26-11-2024	24. Validity Duration: 3 years post NSQC	<b>25. Next Review Date:</b> 26-11-2027
		Approval	

# Section 2: Module Summary

## NOS/s of Qualifications

(In exceptional cases these could be described as components)

## Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Man.-Mandatory Training Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Modul	Core/	Core/ NCrF/NS Credits Training Duration (Hours) Assessment N					Training Duration (Hours)			ment M	Marks						
		e Code &	Non-	QF Level	as per	Th.	Pr.	OJT-	OJT-	Total	Th.	Pr.	Proj.	Viva	Total	Weightage			
		Version (if	Core		NCrF			Man.	Rec.							<b>(%)</b> (if			
		applicable)														applicable)			
1	Implementation of cattle	AGR/N4820	Core	4	6	80	100			180	31	51		18	100	50			
	breeding services	(v3.0)	Core	4	U	80	100			100	31	31		10	100	30			
2	Provide veterinary first-aid (AIT)	AGR/N4829	Core	4	1	10	20			30	38	40		22	100	20			
		(v1.0)	Core	4	1	10	20			30	30	40		22	100	20			
3	Assisting in veterinary	AGR/N4808	Core	4	2	20	40			60	55	33		12	100	25			
	extension services	(v3.0)	Core	4	4	4	4 2	4   2	20	40			60	55	33		12	100	25
4		DGT/VSQ/N	Non-	4	2	60				60	20	30			50	5			
	Employability skills (60 Hours)	0102 (v1.0)	Core	4	2	60				60	20	30			50	5			
5	OJT				2			60		60									
Duratio	n (in Hours) / Total Marks				13	170	160	60		390	144	154		52	350	100			

Optional NOS/s: Program implementation and marketing in the livestock sector

S. No	NOS/Module Name	NOS/Modul	Core/	NCrF/NS	Credits	Training Duration (Hours)				Assessment Marks						
		e Code &	Non-	QF Level	as per	Th.	Pr.	OJT-	OJT-	Total	Th.	Pr.	Proj.	Viva	Total	Weightage
		Version (if	Core		NCrF			Man.	Rec.							<b>(%)</b> (if
		applicable)														applicable)
1.	Facilitate program	AGR/N4810														
	implementation and marketing	(v4.0)	Core	4	1	20	10			30	30	40		30	100	25
	in the livestock sector															
Duratio	Duration (in Hours) / Total Marks				1	20	10			30						

## Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: \_\_\_\_% (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

## Section 3: Training Related

1.	Trainer's Qualification and experience in the	Diploma (Veterinary / Animal Husbandry / Dairying) with 5 years of relevant industry or training experience in
	relevant sector (in years) (as per NCVET	Cattle Breeding and Animal Welfare*
	guidelines)	OR
		Graduate (Graduate (B. V. Sc.)) with 1 year of relevant industry or training experience in Cattle Breeding and
		Animal Welfare
		OR
		Post Graduate in Animal science
2.	Master Trainer's Qualification and	5 years of relevant training experience in Cattle Breeding and Animal Welfare after Diploma (Veterinary /Animal
	experience in the relevant sector (in years)	Husbandry / Dairying) with 5 years of relevant industry experience in Cattle Breeding and Animal Welfare
	(as per NCVET guidelines)	OR
		5 years of relevant training experience in Cattle Breeding and Animal Welfare after Graduation (B. V. Sc.) with 1
		year of industry experience in Cattle Breeding and Animal Welfare
		OR
		Post Graduate (Animal science)
3.	Tools and Equipment Required for Training	$ extrm{ extrm{ iny Yes}}$ \tag{\textrm{\textrm{In} f "Yes", details to be provided in Annexure}}
4.	In Case of Revised Qualification, Details of	NA NA
	Any Upskilling Required for Trainer	

## Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant	B. V. Sc. with 4 years of relevant experience in Animal Science/Veterinary Science /related experience
	sector (in years) (as per NCVET guidelines)	OR
		M. V. Sc with 2 years of relevant experience in Animal Science/Veterinary Science /related experience
		OR

2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Ph. D (Veterinary Science/Animal Husbandry/ Veterinary Clinical Medicine/Veterinary Clinical Sciences)  1 year of relevant experience in Animal Science/Veterinary Science /related experience  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) (as per NCVET guidelines)	M. V. Sc with 10 years of relevant experience in Animal Science/Veterinary Science /related experience OR Ph. D (Veterinary Science/Animal Husbandry/ Veterinary Clinical Medicine/Veterinary Clinical Sciences) 10 years of relevant experience in Animal Science/Veterinary Science /related experience
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	☐ Same as for training ☐ Yes ☐ No (details to be provided in Annexure-if it is different for Assessment)

# Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): No
3.	Government /Industry initiatives/ requirement (Yes/No): Yes, Government Initiative, part of PMKVY 4.0
4.	Number of Industry validation provided: 5
5.	Estimated nos. of persons to be trained and employed: 2000
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: yes

# Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrF/NSQF level justification based on NCrF level/NSQF descriptors (Mandatory)	Annexure-1
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Annexure-2
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Annexure-5
4.	Annexure: Assessment Strategy (Mandatory)	Annexure-6
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is "Blended Learning")	NA

6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	NA .
7.	Annexure: Acronym and Glossary (Optional)	
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Annexure-7
9.	Supporting Document: Career Progression (Mandatory - Public view)	Artificial Insemination Supervisor (L5)
10.	Supporting Document: Occupational Map (Mandatory)	Annexure-8
11.	Supporting Document: Assessment SOP (Mandatory)	Annexure-9
12.	Any other document you wish to submit:	

## Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the	How the job role/ outcomes relate to the NCrF/NSQF level	NCrF/NSQF Level
	qualification	descriptor	
Professional Theoretical	<ul> <li>Assisting in cattle breeding</li> </ul>	The Artificial Insemination Technician Individual at this	4
Knowledge/Process	<ul> <li>Management of Dairy animals</li> </ul>	job role is responsible for assisting farmers in cattle	
	<ul> <li>Development services</li> </ul>	breeding and management of dairy animals, which	
		includes limited range of activities of predictable &	
		routine processes such as cattle breeding, management	
		and development related services mostly in the outdoor	
		setting.	
Professional and Technical	<ul> <li>Assist the farmers in animal breeding</li> </ul>	The individual need factual knowledge of Artificial	4
Skills/ Expertise/ Professional	<ul> <li>Quality cattle selection</li> </ul>	Insemination in animal breeding, which includes	
Knowledge	Artificial Insemination Techniques	Processes and principles such as artificial insemination	
	<ul> <li>Administer appropriate emergency</li> </ul>	techniques, Breeder database maintenance, quality	
	procedures	cattle selection, performance monitoring etc., with	
	<ul> <li>Application of tools</li> </ul>	limited application of material and tools	
Employment Readiness &	Animal Selection	The individual need desired skills in artificial	4
Entrepreneurship	<ul> <li>Animal Breeding</li> </ul>	insemination technique, animal breeding and	
Skills & Mind-  • Artificial Insemination operations		management operations. Individual should be good in	
set/Professional Skill	<ul> <li>Maintain clean and safe workplace</li> </ul>	selection and application of tool. The individual should	
		be good in quality animal selection.	
Broad Learning	Pre-preparation of artificial	In order to correctly perform the tasks related to	4
Outcomes/Core Skill	insemination	selection of animal, pre preparation of artificial	
	Animal Breeding Management	insemination, breeding, management in the outdoor	

	Basic arithmetic skills	settings, individual requires communication skills with required clarity, basic arithmetic skills, personal banking and basic understanding of social, political and natural environment.	
Responsibility	<ul> <li>Managing the Animal Breed Improvement Programs</li> <li>Application of AI techniques</li> </ul>	The individual works under close supervision and is responsible for own work within defined limit. They are not lack in responsibility (as required under Level 2), nor they do work independently (as required under Level 4).	4

## Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Video Recording Equipment	Nos	1
2	Cotton Balls or Gauze	Nos	5
3	Fresh Towels	Nos	5
4	Semen Straw (Cow/ buffalo) 0.5 ml	Nos	5
5	Liquid nitrogen	Liters	5
6	A warm-water thaw unit with thermometer	nos	1
7	Tweezers	Nos	2
8	Antibacterial Soaps	Nos	2
9	Artificial Insemination sheaths	Nos	3
10	Plastic disposable shoulder-length		
	gloves	Nos	30
11	Paper towels	Nos	2
12	Artiificial Insemination Guns	Nos	2
13	Cryocan cylinder	Nos	2
14	Face Masks	Nos	30
15	Al lubricant (Exluding Soap or deteregent which is a spermicides)	Nos	2

16	95% alcohol in small plastic jar	Nos	2
17	Rubber gloves	Nos	30
18	Gumboots	Nos	5
19	Scissors or cito cutter	Nos	2
20	Eye-protection glasses	Nos	5

#### Classroom Aids

The aids required to conduct sessions in the classroom are:

- Whiteboard
- Markers

## Annexure 3: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S.	Organization	Representative Name	Designation	Contact	Contact Phone	E-mail ID	LinkedIn
No	Name			Address	No		Profile
							(if
							available)
1	KVK Datia	Dr Awdhesh Singh	Senior Scientist & Head	Datia	9399935960	Kvk.datia@rvskvv.net	
2	KVK Gwalior	Dr Shailendra Singh Kushwah	Senior Scientist & Head	Gwalior	7067840763	Kvk.gwalior@rvskvv.net	
3	KVK Parbhani	Dr Imran Khan Aghai	Scientist (Animal Science)	Parbhani	9890016696	Kvkpbn94@yahoo.co.in	
4	KVK Sangvi	Mr. Wasudeo. Y. Chandurkar	SMS (Extension	Sangvi	7972162867	vasudeoextn@gmail.com	
5	KVK Golaghat	Dr Bhabesh Chandra Deka	Senior Scientist & Head	Golaghat	9435340387	Kvk_goalghat@aau.ac.in	

## Annexure 4: Training & Employment Details

#### **Training and Employment Projections:**

Year	To	otal Candidates		Women	People with Disability		
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	
2022-23	100	50	30	10			
2023-24	100	50	30	10			
2024-25	100	50	30	10			

Data to be provided year-wise for next 3 years

#### Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification	Year	Total Candidates			Women			People with Disability					
Version		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
V3.0	2021-24	1592											

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

#### List Schemes in which the previous version of Qualification was implemented:

- Non-PMKVY
- 2. PMKVY

#### Content availability for previous versions of qualifications:

Participant Handbook		Guide Digital Content	☐ Qualification Handbook ☐ Ar	v Other
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Languages in which Content is available: Hindi and English

## Annexure 5: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical	Project	Viva Marks
	Maintaining database of good cattle breeders	2	Marks 2	Marks	2
	PC1. help farmers/clients with information on sources of good breeding animals				
	Assistance to farmers in quality cattle selection/purchase	5	3	-	2
A C.D (N. 4920)	PC2. assist farmers/clients in selecting animals with the proper breed and other characteristics for breeding purposes				
AGR/N4820:	Animal identification and data recording	4	8	-	-
Implement cattle	PC3. restrain the animal appropriately				
Breeding Services	PC4. perform tagging of animals as per standard protocol				
	PC5. use field data collection tools (including electronic/mobile mobile-based data collection) as per the given specifications				
	Conducting artificial insemination	10	20	-	5
	PC6. recognize heat in cattle				
	PC7. use semen of appropriate quality and blood level				

PCB. Follow protocols pertaining to biosecurity, safety, hygiene, and welfare  PC9. follow the prescribed procedures in handling semen straw, and in conducting insemination  PC10. practice artificial insemination in time  PC11 follow-up cases and conduct pregnancy diagnosis  Assistance to farmers on management of unproductive animals.  PC12. explain farmers of lents appropriate feeding practices required for breeding animals e.g. Mineral supplementation etc.  PC13. guide farmers on maintaining an optimum number of animals based on breeding plan and suggest performance goal  Post insemination data recording and performace monitoring of breeding services  PC14. use field data collection tools (including electronic reader /mobile based data collection) as per given specifications  PC15. provide organization with standard required information such as semen used; time of heat, time of insemination, calf born etc., needed to monitor breeding services  Essential preventive health support to breeding onimals  PC17. evaluate procedure for procurement/infrastructure for storage etc. and use of vaccines from appropriate source only  PC18. ensure cold chain and compliance with other guidelines during transport of vaccines to farmer's/clients' place and point of use  PC19. rotate vaccine stock in hand so that the oldest vaccines are used first, ensuring that no vaccine is used after the expiration date  PC20. comply all scientific guidelines related to vaccine administration procedure, e.g., use of appropriate dose, use of separate syringe for different vaccines, etc.  PC21. ensure the record of a given vaccine and administration-related information (individual/herd level) along with batch numbers etc., as per the given format  PC22. timely report vaccine failure to appropriate authority as per format  PC23. ensure here coverage and continuity of vaccination program			1	1	
conducting insemination PC10. practice artificial insemination in time PC11 follow-up cases and conduct pregnancy diagnosis  Assistance to farmers on management of unproductive animals. PC12. explain farmers/clients appropriate feeding practices required for breeding animals e.g. Mineral supplementation etc. PC13. guide farmers on maintaining an optimum number of animals based on breeding plan and suggest performance goal Post insemination data recording and performance monitoring of breeding services PC14. use field data collection tools (including electronic reader /mobile based data collection) as per given specifications PC15. provide organization with standard required information such as semen used; time of heat, time of insemination, calf born etc., needed to monitor breeding services Essential preventive health support to breeding animals Sesential preventive health support to breeding animals PC16. demonstrate a high rate of voluntary compliance with biosecurity norms within a farm PC17. evaluate procedure for procurement/infrastructure for storage etc.and use of vaccines from appropriate source only PC18. ensure cold chain and compliance with other guidelines during transport of vaccines to farmer's/clients' place and point of use PC19. rotate vaccine stock in hand so that the oldest vaccines are used first, ensuring that no vaccine is used after the expiration date PC20. comply all scientific guidelines related to vaccine administration procedure, e.g., use of appropriate dose, use of separate syringe for different vaccines, etc.  PC21. ensure the record of a given vaccine and administration-related information (individual/herd level) along with batch numbers etc., as per the given format PC22. timely report vaccine failure to appropriate authority as per format					
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PC22. timely report vaccine failure to appropriate authority as per format	information (individual/herd level) along with batch numbers etc., as				
PC23. ensure herd coverage and continuity of vaccination program	PC22. timely report vaccine failure to appropriate authority as per format				
	PC23. ensure herd coverage and continuity of vaccination program				

	PC24. describe preventive de-worming and ecto parasite control as per the SOP approved by the organization				
	Providing assistance in the management of bull stations/ semen production centres	3	5		2
	PC25. To be able to undertake the management of breeding bulls as per instructions.				
	PC26 prepare animals and assist in semen collection				
	PC27 assist in the routine maintenance of various common equipment in semen production centres				
	PC28 supervise storage, handling and distribution of semen straws				
	Total Marks	31	51	-	18
	Handling of non-infectious conditions like indigestion, anorexia, constipation, tympani, impaction, diarrhea etc.	8	5		5
	<b>PC1.</b> Identify the non-infectious condition and use commonly suggested medications / follow precautions as per the manual prepared by the supervisor				
	Provide immediate support to accidental situations like poisoning, sunstroke, electrocution, burn injuries, etc.	8	5		5
	PC2. identify the cause of the accident from thesymptoms				
	<b>PC3.</b> recognize the severity of the accident and suggest for consultation with a veterinarian				
AGR/N4829: Provide	<b>PC4.</b> provide primary/immediate care as specified for each type of accident as per SOP				
Veterinary First Aid (AIT)	Handling of superficial wounds and trauma	7	10		2
	PC5. clean and protect the wound and stop bleeding				
	Provide support in reproductive emergencies	15	20		10
	<b>PC.6</b> take needed precautions at the time of calving and use the naval kit for disinfection of naval cord.				
	<b>PC7</b> recognize signs of dystocia early to seek appropriate help from a supervisor/veterinarian				
	PC8 provide resuscitation to newborn calves.				
	<b>PC9.</b> carry out aseptic handling and protection of the prolapsed organ(s) before the arrival of a veterinarian				
	Total Marks	38	40	-	22
AGR/N4808: Assist in veterinary extension services	Promoting approved technology and best practices (including organic practices) in livestock farming, handling animal products	30	18	-	2

	PC1. explain the applicability and benefit associated with common approved technology(s) / best practice(s) in the context of local situations, opportunities, and constraints				
	<b>PC2.</b> give feedback on technology application in the field and need for improvement				
	PC3. organize extension events based on farmer convenience and seasonal suitability				
	Assist farmers on quality farm input selection and procurement	10	10	-	2
	PC4. explain quality parameters regarding various farm inputs				
	PC5. identify sources, plan and organize farmers for intelligent (timely, quality, and appropriate cost-based) procurement of inputs				
	Engagement with community and delivery of sustainable services	15	_	-	5
	PC6. recognize how gender and other social factors impact management of animals				
	PC7. follow various related development programs ongoing within the community and contribute meaningfully to such programs.				
	PC8. prepare and support community and individual farmers to face disasters.				
	PC9. apply basic principles of management needed for sustainable delivery of services within a community				
	PC10. network with various people and associations within profession, community and in livestock business				
	Use of mobile and other technology for extension/client education		5		3
	PC11. use modern communication devices, audio-visual aids to explain farmers/clients				
	Total Marks	55	33		12
DGT/VSQ/N0102:	Introduction to Employability Skills	1	1	-	-
Employability Skills (60 Hours)	PC1. identify employability skills required for jobs in various industries				
liouisj	PC2. identify and explore learning and employability portals	4	4		
	Constitutional values – Citizenship	1	1	-	-
	PC3. 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. PC4. follow environmentally sustainable practices				
	Becoming a Professional in the 21st Century	2	4		
	becoming a riojessional in the 21st Century		4		-

	PC5. recognize the significance of 21st Century Skills for employment				
	PC6. 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				
	Basic English Skills	2	3	-	-
	PC7. use basic English for everyday conversation in different contexts,				
	in person and over the telephone				
	PC8. read and understand routine information, notes, instructions,				
	mails, letters etc. written in English				
	PC9. write short messages, notes, letters, e-mails etc. in English				
	Career Development & Goal Setting	1	2	-	-
	PC10. understand the difference between job and career				
	PC11. prepare a career development plan with short- and long-term				
	goals, based on aptitude				
	Communication Skills	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				
	Diversity & Inclusion	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				
	Financial and Legal Literacy	2	3	-	-
	PC16. select financial institutions, products and services as per				
	requirement				
	PC17. carry out ofline 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				
	Essential Digital Skills	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				
	Entrepreneurship	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				
	Customer Service	1	2	-	-
	PC26. identify different types of customers				
	PC27. identify and respond to customer requests and needs in a professional manner.				
	PC28. follow appropriate hygiene and grooming standards				
	Getting ready for apprenticeship & Jobs	2	3	-	-
	PC29. create a professional Curriculum vitae (Résumé)				
	PC30. search for suitable jobs using reliable ofline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively				
	PC31. apply to identified job openings using ofline/online methods as per requirement				
	PC32. answer questions politely, with clarity and confidence, during recruitment and selection				
	PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements				
	Total Marks	20	30	-	
	Grand Total	10	12		
	Facilitate implementation of government / private development programs including livestock insurance	10	13		7
AGR/N4810 Facilitate program implementation	PC1.promote awareness of programs and help in targeted beneficiary selection as envisioned in the project/program				
and marketing in the livestock sector	PC2.work with selected project beneficiaries in implementing activities as envisaged in promoted programs				
	PC3.practice ear tagging in livestock and register animal for insurance				
	Engagement with 'farmers' institutions and local self- government (Panchayat)	5	10		5

PC4.attend and support during meeting/programs of farmer's institutions/panchayats				
PC5.inform/involve farmer leaders/panchayat functionaries in the selection of program beneficiaries				
PC6. facilitate convergence of development projects for synergy				
Facilitate agri-livestock related economic activity of self-help groups	10	5		10
PC7.support and handhold formation of self-help groups				
PC8.guide farmers on business options and basic economics of various livestock-linked activities				
Facilitate marketing of livestock farm inputs / products	5	12		8
<b>PC9.</b> support farmers to produce for market and ensure aggregation, collective marketing of livestock products				
PC10. deliver market-related e.g. prices, etc. information to farmers				
PC11. promote use of quality livestock farm inputs				
Total Marks	30	40	-	30

#### Annexure 6: 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. <u>Multiple Choice Questions</u>: 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 jobrole

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
  - o Pictures of classroom, labs to check the availability of adequate equipment's and tool to conduct the training and assessment
  - o 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.
- <u>Video Calls</u>: 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
- <u>Aadhar verification</u> 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.
- <u>TP Calling</u>: 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
- <u>Video and Picture Evidence:</u> 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: 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
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

#### Glossary

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Term	Description

Qualification Code:	QG-04-AG-03414-2024-V2-ASCI
Qualification Code:	QG-04-AG-03414-2024-V2-A301

National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
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 on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf