



QUALIFICATION FILE

Digital Agriculture Extension Promoter

Short Term Training (STT) Long Term Training (LT) Apprenticeship

Upskilling Dual/Flexi Qualification For ToT For ToA

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

NCrF/NSQF Level: 5.5

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 Names	Digital Agriculture Extension Promoter Elective 1: Farm Production Elective 2: Agri Supply Chain																			
2.	Sector/s	Agriculture																			
3.	Type of Qualification: <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved) NA	Qualification Name of existing/previous version: NA																		
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA																			
5.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval)	QC-5.5-AG-02423-2024-V1-ASCI	6. NCrF/NSQF Level: 5.5																		
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exists also & provide details in annexure)	Certificate																			
8.	Brief Description of the Qualification	The individual is responsible for advising and facilitating farmers towards the successful integration of digital technologies into agricultural practices at farmer's level and at a broader level with the agri-food systems. The person is involved in collecting and analyzing the agricultural data for facilitating data- driven decision making. The person is also responsible for creating digital content and disseminating it through various digital media platforms.																			
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	<p>a. Entry Qualification & Relevant Experience:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG Degree or Equivalent*</td> <td>No experience required</td> </tr> <tr> <td>2</td> <td>UG diploma*</td> <td>1.5-year relevant experience in Agriculture and allied sectors</td> </tr> <tr> <td>3</td> <td>Completed 3-year diploma* after 10th</td> <td>3-years relevant experience in Agriculture and allied sectors</td> </tr> <tr> <td>4</td> <td>12th or equivalent</td> <td>4.5-years relevant experience in Agriculture and allied sectors</td> </tr> <tr> <td>5</td> <td>Previous relevant Qualification of NSQF Level 5</td> <td>1.5-year experience in Agriculture and allied sectors</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	UG Degree or Equivalent*	No experience required	2	UG diploma*	1.5-year relevant experience in Agriculture and allied sectors	3	Completed 3-year diploma* after 10th	3-years relevant experience in Agriculture and allied sectors	4	12 th or equivalent	4.5-years relevant experience in Agriculture and allied sectors	5	Previous relevant Qualification of NSQF Level 5	1.5-year experience in Agriculture and allied sectors
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		6	Previous relevant Qualification of NSQF Level 4.5	3-years experience in Agriculture and allied sectors																																																							
		* Agriculture/Horticulture/Forestry/Agriculture Engineering/Veterinary Sciences and Animal Husbandry/Dairy Technology																																																									
<p>b. Age: NA</p> <p>10. Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF)) 19</p> <p>11. Common Cost Norm Category (I/II/III) (wherever applicable): I</p> <p>12. Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable) NA</p> <p>13. Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</p>																																																											
<p><input checked="" type="checkbox"/>Offline <input type="checkbox"/>Online <input type="checkbox"/>Blended</p> <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>185</td> <td>145</td> <td>120</td> <td></td> <td>450</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p> <p>Elective 1: Farm Production</p> <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>40</td> <td>80</td> <td></td> <td></td> <td>120</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Elective 2: Agri Supply Chain</p> <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>40</td> <td>80</td> <td></td> <td></td> <td>120</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	185	145	120		450	Online						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	40	80			120	Online						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	40	80			120	Online					
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14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/3142.9900 (Agriculture information management)	
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Digital Agriculture Extension Promoter (L 5.5), Digital Farm Advisor (L6)	
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	NA	
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:	
18.	Is the Job Role Amenable to Persons with Disability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", specify applicable type of Disability: <i>SHI</i>	
19.	How Participation of Women will be Encouraged	Endeavour to include women in batches	
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Covered in DGT/VSQ/N0103)	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Ms Priyanka Prakash Email: priyanka@asci-india.com Website: www.asci-india.com	
23.	Final Approval Date by NSQC: 30/04/2024	24. Validity Duration: 3 years post NSQC Approval	25. Next Review Date: 30/04/2027

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/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Evaluate available agricultural technologies to enhance production	AGR/N1044 (v1.0)	Core	5.5	1	20	10			30	30	10		10	50	8
2.	Create and manage digital content	AGR/N1045 (v1.0)	Core	5.5	2	20	40			60	15	25		10	50	15
3.	Apply digital extension strategies for mass outreach	AGR/N1046 (v1.0)	Core	5.5	1	10	20			30	15	20		15	50	12
4.	Collect and handle data	AGR/N1047 (v1.0)	Core	5.5	2	20	40			60	15	20		15	50	15
5.	Analyse and use agricultural data	AGR/N1048 (v1.0)	Core	5.5	2	10	50			60	30	50		20	100	15
6.	Employability Skills (90 Hours)	DGT/VSQ/N 0103 (v1.0)	Non-Core	5	3	90				90	20	30			50	5
7.	OJT				4			120		120						
TOTAL					15	170	160	120		450	125	155		70	350	70

Elective NOS/s: Farm Production

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate deployment of digital applications in crop management and precision farming	AGR/N1049 (v1.0)	Core	5.5	4	40	80			120	30	50		20	100	30
Duration (in Hours) / Total Marks					4	40	80			120	30	50		20	100	30

Elective NOS/s: Agri Supply Chain

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Facilitate deployment of digital applications in Post-harvest management, Supply Chain Management and Financial Inclusion	AGR/N1050 (v1.0)	Core	5.5	4	40	80			120	30	50		20	100	30
Duration (in Hours) / Total Marks					4	40	80			120	30	50		20	100	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 relevant sector (in years) (as per NCVET guidelines)	Diploma in agriculture with 4 years of relevant industry or training experience in Agriculture Precision farming & AI (Data Management) and other relevant fields OR Any Graduate with 3 years of relevant industry or training experience in Agriculture Precision farming & AI (Data Management) and other relevant fields OR Graduate (Agriculture / Horticulture) with 1 year of relevant industry or training experience in Agriculture Precision farming & AI (Data Management) and other relevant fields OR Post-Graduate (Agriculture / Horticulture/ Agriculture Statistics) with 0.5 years of relevant industry or training experience in Agriculture Precision farming & AI (Data Management) and other relevant fields
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	5 years of training experience in Agriculture Precision farming & AI (Data Management) and other related fields after any Graduation and 3 years of relevant industry experience OR 5 years of training experience in Agriculture Precision farming & AI (Data Management) and other related field after Graduate (Agriculture / Horticulture) and 1 year relevant industry experience OR 5 years of training experience in Agriculture Precision farming & AI (Data Management) and other related fields after Post-Graduation (Agriculture / Horticulture/ Agriculture Statistics) and 0.5 years of relevant industry experience
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	Any Graduate with 3 years of relevant experience in Agriculture Precision farming & AI (Data Management) and other related fields OR Graduate (Agriculture / Horticulture) with 2 years of relevant experience in Agriculture Precision farming & AI (Data Management) and other related fields OR Post-Graduate (Agriculture / Horticulture/ Agriculture Statistics) with 1 year of relevant experience in Agriculture Precision farming & AI (Data Management) and other related fields
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	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)	Post-Graduate (Agriculture / Horticulture/ Agriculture Statistics) with 10 years of relevant experience in Agriculture Precision farming & AI (Data Management) and other related fields
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	<input type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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): Scoping Study done with the support of Department of Education, Australian Government and ASCI in collaboration with Adelaide University as principal partner and a few other Australian and Indian partners
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
4.	Number of Industry validation provided: 21
5.	Estimated nos. of persons to be trained and employed: 50/year
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes, Concurrence received from Department of Agriculture and Farmers Welfare, MoA & FW

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)	<i>Included as Annexure 1</i>
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	<i>Included as Annexure 2</i>
3.	Annexure: Detailed Assessment Criteria (Mandatory)	<i>Included as Annexure 5</i>
4.	Annexure: Assessment Strategy (Mandatory)	<i>Included as Annexure 6</i>
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)	<i>Included as Annexure 8</i>
9.	Supporting Document: Career Progression (Mandatory - Public view)	<i>Included as Annexure 9</i>
10.	Supporting Document: Occupational Map (Mandatory)	<i>Included as Annexure 10</i>
11.	Supporting Document: Assessment SOP (Mandatory)	<i>Included as Annexure 11</i>
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 qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	The individual has knowledge of different agricultural technologies for increasing farm productivity, profitability and sustainability and reduce losses across the supply chain.	Proficient in interdisciplinary knowledge including tech with specialized expertise in related fields; knowledgeable in emerging trends, change management, and problem-solving.	5.5

Professional and Technical Skills/ Expertise/ Professional Knowledge	<p>The individual is able to</p> <ul style="list-style-type: none"> • Evaluate agricultural technology to enhance production • Collect and manage data • Interpret and use agricultural data • Create and manage digital content • Use digital extension platforms 	Proficiently skilled in advanced cognitive abilities, project management,	5.5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	The individual is able to create and manage digital content and deploy digital technologies for enhancing agriculture value chain	Capable of driving innovation for optimal group performance.	5.5
Broad Learning Outcomes/Core Skill	The individual is able to interpret and analyse agricultural data, present data/findings and recommend solutions/ corrective actions to be taken.	Applies advanced technical skills, monitors critical parameters, evaluates and improves processes, and solves complex problems with evidence-based judgement in complex problems.	5.5
Responsibility	The individual is able to facilitate implementation of technology for sustainable agricultural systems and implement strategies to enhance workforce digital capabilities.	Effectively manages independent units/projects, delegates, supervises and drives change with full responsibility & team building	5.5

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	Computer/Laptop	MS office including zoom/MS Teams	6
2	software	licenced software for data analysis (shared)	1
3	Drone	Nano Drones <250gms (For licensed trainer only)	1
4	One Fully functional mid-size drone	<150kg (For licensed trainer only)	1

5	MS/Infrared camera	shared	1
6	GIS softwares	shared	1
7	Weather and Agri-market related apps	shared	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 3: Industry Validations Summary

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

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	KVK, Amravati	Dr K P Singh	Sr Scientist and Head	Durgapur, Amravati	9637717818	pckvkda2015@gmail.com	
2	IBRAD (Indian Institute of Bio Social Research and Development),	Professor S.B. Roy	Chairman	Prafulla Kanan, Kestopur, Kolkata 700101	9830037376	sbroy111@gmail.com	
3	Patanjali Organic Research Institute Pvt Ltd	Mr Pawan Kumar	Chief General Manager	Haridwar, Uttarakhand	9412075011	chiragpawan@yahoo.com	
4	Rajinder Agri Clinic	Mr Rajinder Singh	Managing Director	Amritsar, Punjab	9815008544	director@rajinderagriclinic.com	

5	SUVIDHA	Mr Prakash Singh	AGM, Project head	Haldwani, UK	7906699701	prakash@suvidha-india.org	
6	Agrinext Consultancy	Ms. Madhuri Dixit Ghugari	Founder & Director	Pune	7440403736	madhuri@agrinextconsultancy.com	
7	Indian Institute of Plantation Management	Dr. K.C. Prakash	Assistant Professor	Bangalore	7619367720	kcp.iipmb@gmail.com	
8	Gramshree Agri Services Pvt Ltd	Ms Aastha Singh	Founder & CEO	Patna, Bihar	9608600960	gramshreeagri@gmail.com	
9	Indian Cardamom Research Institute, Spices Board	Dr. John Jo Varghese	Head, ICRI, RRS, Gangtok Sikkim	Gangtok, Sikkim	9495490555	johnjovarghese@nic.in	
10	Dr. Rajendra Prasad Central Agricultural University (RPCAU), Pusa, Samastipur, Bihar	Dr. Mohit Sharma	Asst. Scientist & Dy. Registrar	School of Agri-Business & Rural Management (SAB&RM), RPCAU, Pusa, Samastipur, Bihar, 848125	9549034035	mohit.sharma@rpcau.ac.in	
11	KVK_Nanded	Dr Madhuri Revanwar	Sr Scientist and Head	Nanded	9049388323	ssm.kvklearning@gmail.com	
12	KVK_Mahabubnagar	Dr. Khogare Dadasaheb Trimbaik.	Sr Scientist and Head	Mahabubanagar, Telangana	9370006598	kvk_mahaboobnagar@yahoo.co.in	
13	KVK_Nadia	Dr Sanjay Kumar Ray	Sr Scientist and Head	Kalyani, Nadia	8729999748	kvkaddlnadia@gmail.com	

14	Assam Agriculture University	Dr. Sundar Barman	Associate Professor	Jorhat	9864253089	sundar.barman@aau.ac.in	
15	KVK Barpeta	Dr Pibnkudhar Barman	Subject Matter Specialist	Howly	8011605292	pinkukvk12@rediffmail.com	
16	KVK Golaghat	Dr Bhabesh Chandra Deka	Sr Scientist and Head	Golaghat	9435340387	kvk_golaghat@aau.ac.in	
17	ICAR NRRI	Dr Kanchan Saikia	Principal Scientist & Incharge Head	Gerua, Hajo	7662887386	kanchansaikia@yahoo.com	
18	KVK_Rewa	Dr A K Pandey	Sr Scientist and Head	Rewa	9977879360	kvk_rewa@rediffmail.com	
19	KVK_Ariyalur	Dr.G.Alagukannan	Sr Scientist and Head	Ariyalur	9629246586	kvk.ariyalur@icar.gov.in	
20	CSSSPG College	Dr Surjeet Kumar	Director	Meerut	9412519340	surjeetarun@gmail.com	
21	KVK Alwar	Dr Sushil Kumar Sharma	Principal Scientist and Head	Bansur, Rajasthan	7976966603	kvkbansur@gmail.com	

Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates	Women	People with Disability
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	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2024	50	30	20	10		
2025	50	30	20	10		
2026	50	30	20	10		

Data to be provided year-wise for next 3 years

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessee d	Certifie d	Placed
	NA												

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:

1. NA
- 2.

Content availability for previous versions of qualifications:

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available:

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 Marks	Project Marks	Viva Marks	Total Marks
AGR/N1044: Evaluate available agricultural technologies to enhance production	<i>Evaluate the need for agricultural technology</i>	30	10		10	50
	PC1. Identify and evaluate farm/organisational tasks and processes that could be supported by technological applications					

	PC2. Identify the applications of the commonly used digital technologies in agriculture, such as precision farming tools, sensor-based monitoring systems, and remote sensing technologies						
	PC3. Assess opportunities and limitations for operational improvements that may result from adopting specific technological applications						
	PC4. Evaluate equipment, tools and resource requirements and select most appropriate options						
	PC5. Evaluate cost-benefit of using technology						
	PC6. Seek independent technical advice and sources of information as required						
	PC7. Develop plan to incorporate use of technology to improve operational efficiency, productivity and sustainability						
	Total Marks	30	10		10	50	
AGR/N1045: Create and manage digital content	Identify the knowledge gap for content creation	5	5		5	15	
	PC1. Identify existing knowledge gap and services required by farmers						
	PC2. Assess and prioritize the identified needs						
	<i>Create and manage content using digital tools</i>	10	20		5	35	
	PC3. Collect and review the required content from various sources using digital media tools						
	PC4. Create content suitable for various digital media						
	PC5. Customize the content to suit various digital media and audience						
	PC6. Ensure personalization and localization to enhance user engagement						

	PC7. Validate the designed content with various stakeholders					
	PC8. Review and proofread the content					
	PC9. Finalize the content in appropriate digital media for dissemination through various media tools					
	PC10. Store and retrieve content for use					
	Total Marks	15	25		10	50
AGR/N1046: Apply digital extension strategies for mass outreach	<i>Identify the digital extension needs and gap</i>	5	4		5	14
	PC1. Identify existing digital extension knowledge gaps and needs					
	PC2. Assess and prioritize needs and need assessment tools					
	PC3. Collect data on users, user preference, application of digital tools					
	PC4. Leverage data analytics and performance metrics for strategic decision making					
	<i>Apply digital Extension methodologies and Strategies</i>	8	14		8	30
	PC5. select appropriate digital media platforms/applications/tools to meet the required objective					
	PC6. Utilize multichannel approach such as websites, mobile app., social media, and other social networking platforms for sharing the digital content					
	<i>Establish partnerships and Collaboration for mass outreach</i>	2	2		2	6
	PC7. Identify partners and collaborators for enhancing digital presence					
	PC8. Develop strategic partnerships and collaborate with stakeholders so as to amplify reach and co-create content in digital space					
	Total Marks	15	20		15	50
	<i>Determine the type and extent of data to be collected</i>	6	4		4	14

2. AGR/N1047: Collect and handle data	PC1. Define the type and extent of data required					
	PC2. Consider privacy or sensitive data concerns and appropriate methods to address these concerns					
	PC3. Identify data sources					
	PC4. Define data collection methods and techniques relative to data requirements					
	PC5. Communicate data requirements to staff involved in data collection					
	PC6. Identify workplace health and safety hazards and risks associated with data collecting					
	<i>Access and collate data</i>	3	8	5	16	
	PC7. Format data to assist collection					
	PC8. Collect data from field source					
	PC9. Identify and access relevant satellite imagery and data sources for crop management					
	PC10. Collate data by appropriate electronic means					
	PC11. Monitor appropriateness of data and record during collection					
	PC12. Review information using appropriate methods and technologies					
	PC13. Establish and maintain contacts to aid in data collection					
	PC14. Follow workplace health and safety requirements and work practices					
	<i>Evaluate data</i>	3	4	3	10	
	PC15. Organise and review data					
	PC16. Seek clarification and assistance where data is unclear or difficult to interpret					
	PC17. Obtain and review additional data as required					
	<i>Manage and retrieve data</i>	3	4	3	10	
	PC18. Store data by appropriate electronic means					

3. AGR/N1048: Analyse and use agricultural data	PC19. Present data using appropriate graphical aids and techniques					
	PC20. Assemble data and provide to the manager or client					
	PC21. Retrieve data as required					
	PC22. Suggest new methods of recording and storing data as required					
	Total Marks	15	20	0	15	50
	<i>Identify, access and apply agricultural data</i>	2	4		2	8
	PC1. Discuss workplace business objectives, goals and farming system with business/farm owner or farm manager to determine purpose of information being sought					
	PC2. Identify existing sources of agricultural data available in the workplace to support workplace business objectives					
	PC3. Review and select appropriate software programs or applications (app) to meet workplace business objectives					
	PC4. Access existing agricultural data and enter into software program or app					
	PC5. Create maps, graphs and summary reports using existing data					
	<i>Interpret and explain agricultural data</i>	2	6		2	10
	PC6. Interpret maps or reports to identify opportunities and limitations for operational improvements that support business objectives					
	PC7. Conduct field work to ground truth data and record interpretations of data for future use					
	PC8. Document data results using appropriate interpretation and presentation techniques					
	PC9. Discuss and explain data results and information with business/farm owner or farm manager					

	<i>Analyse agricultural data</i>	10	12		4	26
	PC10. Collect and analyse data to determine significance of results					
	PC11. Undertake simple statistical analysis to detect data outliers, imbalances in generated data sets and identify erroneous data points, including determining spatial density of the managed data set					
	PC12. Produce variability maps from suitable data sets					
	PC13. Discuss and recommend solutions utilising agricultural data, and present to business/farm owner or farm manager for approval					
	<i>Identify and address data gaps</i>	6	6		4	16
	PC14. Identify validity and reliability, and gaps in existing agricultural data					
	PC15. Identify solutions to address data gaps utilising existing sources					
	PC16. Identify and cost hardware and software solutions to address data gaps where required					
	PC17. Discuss and recommend solutions and seek approval from business/farm owner or farm manager					
	<i>Use agricultural data</i>	3	8		2	13
	PC18. Collect and organise agricultural data and enter into software program or app					
	PC19. Generate maps and reports for agricultural activities for review and discussion with key business personnel					
	PC20. Incorporate agricultural data into business operations					
	PC21. Determine if corrective action is required and take appropriate action					
	<i>Present data/findings</i>	4	10		3	17

	PC22. Prepare and report data in an appropriate format, style and structure using appropriate software					
	PC23. Check structure and format of reports are clear and conform to enterprise requirements					
	PC24. Present findings of analysis, with conclusions, to work team					
	PC25. Obtain feedback and comments on suitability and sufficiency of findings					
	<i>Review and report agricultural data</i>	3	4		3	10
	PC26. Review production data to identify changes in productivity as a result of using agricultural data, and document results					
	PC27. Identify opportunities for improvements using agricultural data with the support of a domain expert					
	PC28. Report results to business/farm owner or farm manager					
	Total Marks	30	50	0	20	100
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					
	<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					
	<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					
	TOTAL MARKS	20	30			
ELECTIVE 1: Farm Production						
AGR/N1049: Facilitate deployment of Digital Applications for Crop Management/Precision Farming	<i>Identify the scope and use of digital tools in crop management/precision farming</i>	10	15		10	35
	PC1. Identify key interventions in crop production, crop management, plant protection and harvest					
	PC2. Assess the existing practices in crop production					
	PC3. Identify the scope for the use of digital applications in crop production					
	PC4. Prepare a deployment plan for the use of AI, Mobile apps. for various field interventions					
	PC5. Prepare digital agriculture toolkit for crop monitoring and management					
	<i>Deploy various digital tools for crop management/precision farming</i>	20	35		10	65
	PC6. deploy GIS / GPS technologies for mapping and other operations					
	PC7. Deploy IoT / AI applications for SMART irrigation management					
	PC8. Deploy AI and mobile app. for farm management, plant protection and harvest					
PC9 Integrate various precision farming tools, technologies in crop management						
Total Marks		30	50		20	100
ELECTIVE 2: Agri Supply Chain						
AGR/N1050: Facilitate deployment of Digital Applications in Post-Harvest Management	<i>Identify the scope and use of digital tools in Post-Harvest Management, Traceability, Supply Chain, E-commerce and Financial Inclusion</i>	10	15		10	35

harvest Management, Supply Chain Management and Financial Inclusion	PC1. Identify key interventions in Post-harvest management, Supply Chain Management including traceability, E-commerce					
	PC2. Identify the scope of financial inclusion for agricultural development					
	PC3. Assess the digital technologies / tools suitable for PHM, Supply Chain Management including traceability, E-commerce and financial inclusion					
	PC4. Prepare a deployment plan for the use of digital applications for PHM, Supply Chain Management including traceability, E-commerce and Financial Inclusion					
	PC5. Prepare digital agriculture toolkit for Post-harvest management, Supply chain management and Financial Inclusion					
	<i>Deploy various digital tools for Post-harvest Management, Supply Chain Management including traceability, E-commerce and Financial Inclusion</i>	20	35		10	65
	PC6. Deploy digital tools for Post-harvest Management and Traceability					
	PC7. Deploy digital tools for Financial Inclusion and e- Commerce					
	PC8. Deploy various fintech solutions for digital payment, transactions, farm financing and investment.					
	Total Marks	30	50		20	100

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. 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

0. 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.

0. 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.

0. 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

0. *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-Stamp 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 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
NOS	National Occupational Standard(s)
NQR	National Qualification Register

NSQF	National Skills Qualifications Framework
OJT	On the Job Training
AI	Artificial Intelligence
GIS	Geographic Information Systems
GPS	Global Positioning System
IoT	Internet of Things

Glossary

Term	Description
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