





QUALIFICATION FILE - Micro Credentials

Price Risk Management in Agri Commodities for FPO

⊠ Public □ Private				
$oxtimes$ Upskilling $oxtimes$ Dual/Flexi Qualification $oxtimes$ For ToT \oxtimes For ToA				
□General □ Multi-skill (MS) □ Cross Sectoral (CS) ⊠ Future Skills □ OEM NCrF/NSQF Level: 4				

Submitted By:

Agriculture Skill Council of India

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

Table of Contents

Section 1: Basic Details	3
Section 2: Training Related	
Section 3: Assessment Related	
Section 4: Evidence of Need of the Micro Credential	7
Section 5: Annexure Check List	7
Annexure-1: Evidence of Level	8
Annexure-2: Learning Outcomes and Assessment Criteria	11
Annexure3: Assessment Strategy	
Annexure-4: Tools and Equipment	16
Annexure-5: Industry Validations Summary	17
Annexure-6: Training Details	18
Annexure-7: Acronym and Glossary	18

Section 1: Basic Details

1.	Micro Credential-Qualification Name	Pric	Price Risk Management in Agri Commodities for FPO			
2.	Sector/s	Agr	Agriculture			
3.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval.)	NM-	NM-04-AG-01758-2024-V1-ASCI & Version 1.0			
5.	Brief Description of the Micro Credential	This unit is for upskilling the FPO leaders/farmers in accessing and utilizing available agri marketing tools - Market information, Price Risk management, Electronic Negotiable Warehouse Receipt (ENWR), etc.				
6.	Eligibility Criteria for Entry for Students/Trainee/Learner/Employee	a.	Entry	Qualification & Relevant Experien	ce	
			S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)	
			1	12 th Grade Pass		
			2	10th Grade Pass	2-year relevant experience in Commodity segment	
		-	3	Previous relevant Qualification of	3-year relevant experience in	
				NSQF Level 3	commodity segment	
		b.	. Age: 1	NA		
7.	Credits Assigned to this Qualification, Subject to Assessment (as per	1			8. Common Cost Norm Category (I/II/III)	
	National Credit Framework (NCrF))				(wherever applicable): II	
9.	Any Licensing Requirements/ Pre-requisites for Undertaking Training (wherever applicable)	NA				
10.	Expected Outcomes of the Micro Credential	Teri	minal le	arning outcomes are:		
		 Explain the role of information flow in agriculture Explain the commodity market value chain and the role played major participants Discuss various factors impacting agri commodity market sentiments 				

Approved in :	35 th NSOC N	Aeeting & 3	31 st Januar	v 2024
, ippi ovca iii i	33 143QC 14	iccing a s	J Janaan	, 202 .

QUALIFICATION FILE— MICRO CREDENTIAL

		comr	modity derivat uss Seasonali	certainties and ho ives market ty in agricultural			_	
		produce						
		 Explain Value addition through modern warehousing Demonstrate utilizing the e-NWR for pledge financing through banking system 					retom	
			ain about abou	ut concepts and t	. •	•		
				ng commodity de				and options
				ing the electronic		•	. •	•
				egistration proces		•	• .	
				quisites and com	oliance require	ment for	FPO participat	tion in
			anges and Don'ts of	participating in C	ommodity Der	ivatives I	Market	
				of commodity de	-			
11.	Training Duration by Modes of Training Delivery (Specify Total							
11.	Duration as per selected training delivery modes and as per requirement of	⊠ Offline Oi	nly 🖾 Online	Only Delende	a			
	the qualification)	Training De	livery Mode	Theory (Hours) Practical	(Hours)	Total (Hours)	
		Classroom	(offline)	20	10		30	
		Online		20	10		30	
		(Refer Blended	d Learning Anne	exure for Details)				
12.	Assessment Criteria							
12.	Assessment Criteria	Theory	Practical	Project	Viva	Tota	"]
12.	Assessment Criteria	(Marks)	(Marks)	Project (Marks)	(Marks)	(Marl	ks) %age	
12.	Assessment Criteria	_		9			"	
12.	Assessment Criteria Is the Qualification Amenable to Persons with Disability	(Marks) 35	(Marks) 30	9	(Marks) 35	(Mari 100	ks) %age	

14.	How participation of women will be encouraged?	Endeavour to include women FPO leaders and farmers in batches
15.	Other Indian Languages in which the Micro Credential will be implemented.	Hindi
16.	Is similar Micro Credential Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☑ No URLs of similar Qualifications:
17.	Name and Contact Details Submitting / Awarding Body SPOC	Name: Ms Priyanka Prakash Email: priyanka@asci-india.com Contact No.: 0124-4670029 Website: www.asci-india.com
18.	NSQC Approval Date: 31/01/2024	19. Validity Duration: 3 Years post NSQC Approval 20. Next Review Date: 31/01/2027

Section 2: Training Related

1.	Trainer's Qualification and experience in relevant	Graduate (Agriculture/ Horticulture/ Commerce/Science/Business management) with 1-year
	sector (in years) (as per requirement and NCVET	experience in agri- sector.
	guidelines)	Post Graduate in Agriculture/ Horticulture/ Commerce/ Science/ Business management with 6 months' experience in agri- sector. For school Program minimum qualification of Trainer should be Graduate (Agriculture/ Horticulture/ Commerce/ Science/ Business management). Their Teaching experience will be considered industry experience
2.	Master Trainer's Qualification and experience in relevant sector (in years) (as per requirement and NCVET guidelines)	Graduate (Agriculture/ Horticulture/ Commerce/ Science/ Business management) with 3-year experience in agri- sector. Post Graduate in Agriculture/ Horticulture/ Commerce/ Science/ Business management with 2-year experience in agri- sector
3.	Tools and Equipment Required for Training	☑ Yes □ No (If "Yes", details to be provided in Annexure)

Section 3: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per requirement and NCVET guidelines)	Graduate (Agriculture/ horticulture/ commerce/science/other related streams) with 3-year experience in agri- sector. BSc/ BBA (Bachelor of Business Administration) in Logistics and Supply Chain Management, Accounting or Agri Finance or equivalent Bachelor degree/ and other related streams with 3-year experience in agri-sector. Masters in Economics/ Agriculture/ other related streams /MBA in Finance/Financial Management/Agri Finance, Procurement and Contract Management, Accounting, Material Management, Inventory Management, Logistics and Supply Chain Management OR Post Graduate Diploma/ MBA Agribusiness Management OR Master of Agribusiness Management or other equivalent degree with 2-year experience in agri- sector.
2.	Proctor's Qualification and experience in relevant sector (in years) (as per requirement and 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 requirement and NCVET guidelines)	Masters in Economics/ Agriculture/ other related streams /MBA in Finance/Financial Management/Agri Finance, Procurement and Contract Management, Accounting, Material Management, Inventory Management, Logistics and Supply Chain Management OR Post Graduate Diploma/ MBA Agribusiness Management OR Master of Agribusiness Management or other equivalent degree with 2-year experience in agri- sector.
4.	Assessment Mode (Specify the assessment mode)	Mode: ☑ Online Only ☑ Offline Only ☐ Blended
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 4: Evidence of Need of the Micro Credential

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

1.	Government /Industry initiatives/ requirement (Yes/No): Yes, OM regarding Skilling in Commodity Derivatives Market (Annexure-11)
2.	Number of Industry validation provided: 5
3.	Estimated number of people to be trained: 5000

Section 5: Annexure Check List

Specify Annexure Number and Name.

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

Annexure-1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	Will have knowledge and understanding about agriculture information dissemination. They will be able to recognize the commodity market value chain and major participants analyze factors affecting market sentiments, manage price uncertainties through commodity derivatives, and understand seasonality impact on prices. FPO leaders will be able to explore modern warehousing for value addition, use e-NWR for financing, learn commodity market concepts, develop skill to employ commodity derivatives market instruments like futures	Possesses specialized knowledge of procedures employed in both routine and non-routine contexts. Has knowledge of collecting and interpreting the available information, drawing conclusions & communicating the same.	4

Professional and Technical Skills/ Expertise/ Professional Knowledge	and options for income improvisation and risk management. FPO leaders will have the knowledge on how they can participate in agri derivatives market to hedge price risk for their farmer members as well as have an additional marketing avenue for produce of their farmer members and subsequently help enhance their income. The individual is adept at evaluating uncertainties in agricultural commodity market. He will gain skill on the techniques of price risk management through use of commodity derivatives market. The individual will be able to pledge the commodities deposited by him in warehouses and gain access to pledge finance through e-NWR.	The ability to gain, and where relevant apply a range of knowledge, skills and understanding. Can clearly identify the relevant tools; and has knowledge of materials in most routine/ non-routine contexts. Can comfortably use most of the	4
Employment Readiness & Entrepreneursing	explain and use commodity	modern marketing tools/infrastructure	4

Skills & Mind-set/Professional Skill	derivatives market to hedge price risk as well as a new marketing avenue for farmer members of FPOs	such as commodity derivatives/ e- NWR/ electronic marketplace, etc.	
Broad Learning Outcomes/Core Skill	The individual is able to understand the price risks associated with agricultural produce of their farmer members, and how to mitigate their risk through use of modern marketing tools such as commodity derivatives market.	Able to identify the problems and a wider possible range of solutions with pros and cons in marketings	4
Responsibility	Report the results of the evaluation to the relevant authorities and stakeholders, and disclose any deviations or issues	Takes complete responsibility for delivery and quality of own work and output. Shares responsibility for the group tasks.	4

Annexure-2: Learning Outcomes and Assessment Criteria

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

S. No.	Learning Outcomes	Theory	Practical	Project	Viva
		Marks	Marks	Marks	Marks
	ding Agri-Commodities Market Ecosystem and Factors Affecting Commodity Trade	5	5		5
PC1	PC1 identify causes impacting prices of commodities				
PC2	study Market Uncertainties and how to cover market risk				
Modern W	arehousing for Value Addition and Pledge-Financing for FPOs	5	5		5
PC3	Study the seasonality in agricultural production and Mandi arrivals of the farm produce				
PC4	Analyse the requirement of storage /warehouse				
PC5	Study the availability and type of storage infrastructure				
PC6	Explore the types of value addition through modern warehousing				
PC7	Utilize the e-NWR for pledge finance				
Using Com	modity-Derivatives Market for Income Improvisation by FPOs	10	10		10
PC8	utilize basic concepts of commodity derivatives market in trading of agri produce for FPOs				
PC9	Utilize various commodity derivative instruments like futures and options for protection against adverse				
PC9	price movement in agri commodities				
PC10	Develop a clear understanding about settlement of commodity trade through Clearing Corporation				
PC11	utilize the electronic warehouse receipt for pledge financing				
Requisites	for FPO Participation on Exchange	15	10		15
DC12	Prepare the documents required to open Trading and Repository a/c with Exchange and Repository				
PC12	Participants				
PC13	Demonstrate the A/C opening process for FPOs				
PC14	Participate in Commodity derivatives market				
	Total Marks	35	30		35

Qualification Code: NM-04-AG-01758-2024-V1-ASCI

Annexure3: Assessment Strategy

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

1. Assessment System Overview

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

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

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

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

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

Viva: 20%

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

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

2. Testing Environment

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

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

- Multilingual assessments (ASCI is conducting assessments in 13 + languages pan India)
- Rubric driven assessments in Practical/Viva sections and responses recorded accordingly
- All responses, data, records and feedback stored digitally on cloud
- Advanced auto-proctoring features photographs, time-stamp, geographic-tagging, toggle-screen/copy-paste disabled, etc.
- Android based monitoring system
- End to end process from allocation of a batch to final result upload, there is no manual intervention
- Assessment will normally be fixed for a day after the end date of training / within 7 days of completion of training.
- Assessment will be conducted at the training venue
- Room where assessment is conducted will be set with proper seating arrangements with enough space to curb copying or other unethical activities
- Question bank of theory and practical will be prepared by ASCI /assessment agency and approved ASCI. Only from approved Question Bank assessment agency will prepare the question paper. Theory testing will include multiple choice questions, pictorial question, etc. which will test the trainee on his theoretical knowledge of the subject.
- The theory, practical and viva assessments will be carried out on same day. In case of more number of candidates, number of assessors and venue facilitation be increased and facilitated

Assessment		ssessment	
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

Viv	/a	Summative	Questioning and Probing	Mock interviews on usability of job roles/advantages /importance of adherence
				to procedures. Viva will be used to gauge trainee's confidence and correct
				knowledge in handling job situation

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

3. Assessment Quality Assurance framework

Assessment Framework and Design:

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

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

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

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

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

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

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

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

standardization of marking scheme.

4. Type of Evidence and Evidence Gathering Protocol:

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

- Geo Tagging to track ongoing assessment
- AA's coordinator emails the list of documents and evidences (photos and videos) to the assessor one day prior to the assessment. List is mentioned below:
 - Signed Attendance sheet
 - Assessor feedback sheet
 - Candidate feedback sheet
 - Assessment checklist for assessor
 - Candidate Aadhar/ID card verification
 - 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
- · Aadhar verification of candidates
- Evening Check (Post Assessment): Calls are made to the ground team to ensure event is over by what time and the documentation is done in proper manner or not.
- TP Calling: To keep check on malpractice activity, independent audit team calls to TP on recorded line to take confirmation if there was any malpractice activity observed in assessment on part of AA/SSC team. If calls are not connected, email is send to TP Spoc for taking their confirmation
- Video and Picture Evidence: Backend team collects video and pictures for assessment on real time basis and highlights any issue like, Students sitting idle/trainer

- allowed for helping out candidates during assessment.
- Surprise Visit: Time to time SSC/AA Audit team can visit the assessment location and do surprise audit for assessment process carried out by ground team.
- Geo Tagging: On day of assessment, each technical spoc is required to login in our internal app which is Geo tagged. Any deviation with centre address needs to be highlighted to assessment team on real-time basis.

Method for assessment documentation, archiving, and Access:

- ASCI has fully automated result generation process in association with multiple AAs
- Theory, Practical and Viva marks forms the basis of the results and encrypted files generated to avoid data manipulation. All responses captured and stored in System with Time-Stamps at the end of AAs and SSC. NOS-wise and PC-wise scores can be generated.
- Maker Checker concept: 1 person prepares results and other audit result which is internally approved by AA at first and then gets vetted at the end of SSC
- All soft copy of documents is received from the on-ground tech team over mail. The same are downloaded by our internal backend team and saved in Repository. The repository consists of scheme wise folders. These scheme wise folders have job role specific folders. These specific folders have Year wise and Month wise folders where all documents are saved in Batch specific folders. All Hard copies are filed and stored in storeroom.
- Result Review & Recheck Mechanism –
- Time stamped assessment logs
- Answer/Endorsement sheets for each candidate
- Attendance Sheet
- Feedback Forms: Assessor feedback form, Candidate feedback form, TP feedback form
- The results for each of the candidate shall be stored and available for review (retained for 5 years/till conclusion of project or scheme)

Annexure-4: Tools and Equipment

List of Tools and Equipment Batch Size:

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	White board	NO	1
2	Marker	NO	2
3	Overhead projector	NO	1
4	Laptop	NO	1

_			
	5	Internet access	

Classroom Aids:

The aids required to conduct sessions in the classroom are:

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

Annexure-5: Industry Validations Summary

S.	Organization	Representative	Designation	Contact Address	Contact	E-mail ID	LinkedIn Profile (if
No	Name	Name			Phone No		available)
1	NCDEX	Mr Kapil Dev	Chief Business	Mumbai-		kapil.dev@ncdex.com	
			Officer	400078, MH			
2	NCCL	Ms Komal Shahani	Chief Financial	Mumbai,		Komal.shahani@nccl.co.in	
			Officer	Maharashtra			
3	Krishi Vigyan	Dr. Ravindra L Kale	Senior	Mothegaon, Post.		fishrlk@gmail.com	
	Kendra Karda		Scientist &	Karda, Tq. Risod			
			Head	Dist. Washim			
				444506			
				(Maharashtra)			
4	Ekgaon	Mr Vijay Pratap Singh	CEO	Greater Noida,		vijay@ekgaon.com	
	Technologies	Aditya		Gautam Buddh			
	Private Limited			Nagar			
5	NERL	Mr Abhishek Rai	Chief Hr &	Mumbai, MH		abhishek.rai@nerlindia.com	
			Marketing				

Training Projections:

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2023-24	1000	50	
2024-25	1000	50	
2025-26	1000	50	

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

Annexure-7: Acronym and Glossary

Acronym

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

Glossary

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