





QUALIFICATION FILE

SERVICE ASSISTANT (AGRICULTURE MACHINERIES)

 \checkmark Short Term Training (STT) \Box Long Term Training (LTT) \Box Apprenticeship

 \Box Upskilling \Box Dual/Flexi Qualification \checkmark For ToT $-\sqrt{}$ For ToA

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

NCrF/NSQF Level: 3

Submitted By: West Bengal State Council of Technical & Vocational Education and Skill Development

Submitting Body Name> West Bengal State Council of Technical & Vocational Education and Skill Development, Karigari Bhavan (5th Floor), Plot-B/7, Action Area-III New Town, Kolkata-700160

Submitting Body Contact Details: Position in the organization: Chief Administrative Officer Address if different from above: Same as above Tel number(s): 033-2340-3717 E-mail address: caowbsctvesd@gmail.com

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Section 1: Basic Details

1.	Qualification Name	1	ce Assistant (Agriculture Machineries) AGR/NSQF-2022/0232	
2.	Sector/s		culture	
3.	Type of Qualification:□ New□√ Revised□ Has Electives/Options□ OEM	qualif	fication: (change to previous, once approved)	Qualification Name of existing/previous version: REPAIRING AND SERVICING OF AGRICULTURE MACHINERIES INCLUDING DIESEL PUMP SET
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA		
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-03 Versio		6. NCrF/NSQF Level: 3
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certifi	cate	
8.	Brief Description of the Qualification	1	rm repair and servicing of Agriculture machine ineries and Tiller, Plant Protection equipment alc	0 · 0· 0· 0
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	Entry	Qualification & Relevant Experience:	
		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	n Required Experience (with Specialization - if applicable)
		1	Grade 10	Nil
		2	Grade 8 pass and pursuing continuous schooling in regular school with vocational subject	Nil
		3	Grade 8 Pass with 2 yrs experience	2 yrs
		4	5th Grade Pass with 5 yrs experience	5 yrs
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	20	-	11. Common Cost Norm Category (I/II/III) (wherever applicable):

12	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA										
13	Training Duration by Modes of Training	√□Offline □Online	Blended									
	Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	Training Delivery Modes	Total (Hours)									
		Classroom (offline)	150	300	150	d (Hours)	600					
		Online				\mathbf{r}						
		(Refer Blended Learnin	g Annexure i	or details)								
14	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	7233.2800										
15	Progression path after attaining the qualification (Please show Professional and Academic progression)	Horizontal Progression: N/A										
		Vertical Progression:										
		1. Service and Mai	ntenance Te	chnician-Far	m Machinery	(L-4)						
		2. Agriculture Mac			-							
		3. Agricultural Macl			3	Provider (L-5).						
		4. Farm /Worksho				()						
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	□ Yes √□ No URLs	of similar Q	ualifications	:							
18	Is the Job Role Amenable to Persons with Disability	□ Yes √□ No If "Yes", specify appli	cable type o	f Disability:								
19	How Participation of Women will be Encouraged	Women can get traine	d and get w	age employn	nent							
20	Are Greening/ Environment Sustainability	$\Box \sqrt{\text{Yes}}$ No										
	Aspects Covered (Specify the NOS/Module which covers it)	Module Name: Apply S	afe Working	Practices (Co	de: AGR/0232,	′OC1,V2.0)						
21	Is Qualification Suitable to be Offered in Schools/Colleges	Schools \checkmark Yes \Box No	o College	s √ Yes 🗆	No							

22	Name and Contact Details of Submitting /	Name: Saequa Monazza, Chief Administrative Office	r
	Awarding Body SPOC	Email: caowbsctvesd@gmail.com	Contact
	(In case of CS or MS, provide details of both	No.: 033-2340-3717	
	Lead AB & Supporting ABs)	Website: sctvesd.wb.gov.in	
23	Final Approval Date by NSQC: 3.5.2023	24. Validity Duration: 3 years	25. Next Review Date 3.5.2026

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.	NOS/Module Name	NOS/Module	Core/	NCrF/	Credits	•	Training	g Durati	on (Houi	rs)			Asses	ssment l	Marks	
No		Code & Version (if applicable)	Non- Core	NSQF Level	as per NCrF	Th.	Pr.	OJT- Man.	OJT- Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Apply Safe Working Practices	AGR/0232/0C1, V2.0	Core	3	1	10	20			30	14	30			44	4.4%
2.	Identify and select various agricultural machineries and describe the uses of each.	AGR/0232/OC2, V2.0	Core	3	1	10	20			30	14	30			44	4.4%
3.	Describe the operations of Tillage implements, demonstrate its working, identify the faults and repair.	AGR/0232/OC3, V2.0	Core	3	1	10	20			30	14	30			44	4.4%
4.	Describe the operations of seeding machinery, its working, identify the faults and repair.	AGR/0232/0C4, V2.0	Core	3	1	10	20			30	14	30			44	4.4%
5.	Recognize different components, different faults, their cause & repair minor faults	AGR/0232/0C5, V2.0	Core	3	1	5	25			30	10	50			60	6%

S.	NOS/Module Name	NOS/Module	Core/	NCrF/	Credits		Training	g Durati	on (Hou	rs)			Asse	ssment	Marks	
No		Code & Version (if applicable)	Non- Core	NSQF Level	as per NCrF	Th.	Pr.	OJT- Man.	OJT- Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
	concern with Harvesting machineries and Threshing machineries											S				
6.	Classify IC engines used in agriculture, explain the working of engine system, fuel system, cooling system, lubricating system, inlet & exhaust system with the help of flow charts	AGR/0232/0C6, V2.0	Core	3	1	5	25		01	30	10	50			60	6%
7.	Identify and describe different component and systems of Tractor and repair minor faults	AGR/0232/0C7, V2.0	Core	3		5	25	Z		30	10	50			60	6%
8.	Identify and recognize different component and systems of Power Tiller and rectify minor faults	AGR/0232/0C8, V2.0	Core	3	1	5	25			30	10	50			60	6%
9.	Demonstrate different component and systems of Plant Protection Equipment and rectify minor faults	AGR/0232/0C9, V2.0	Core	3	1	5	25			30	10	50			60	6%

S.	NOS/Module Name	NOS/Module	Core/	NCrF/	Credits	-	Frainin	g Durati	on (Hou	rs)			Asse	ssment	Marks	
No		Code & Version (if applicable)	Non- Core	NSQF Level	as per NCrF	Th.	Pr.	OJT- Man.	OJT- Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
10.	Exhibit different component and systems of Irrigation Equipment and rectify minor faults	AGR/0232/0C10 ,V2.0	Core	3	1	5	25			30	10	50			60	6%
11.	Demonstrate different component and systems of electric motor used in Pump Set for Agricultural use and rectify minor faults	AGR/0232/0C11 ,V2.0	Core	3	1	5	25	2	0	30	10	50			60	6%
12.	Understand principles of pump set, their components, common faults and dismantling different parts.	AGR/0232/0C12, V2.0	Core	3		5	25	2		30	10	50			60	6%
13.	Calculate rough estimation and costing of repair work for each machinery	AGR/0232/0C13, V2.0	Core	3	1	10	20			30	14	30			44	4.4%
14.		AGR/0232/0C14, V2.0	Core	3	5	0	0	150		150	0	0	250		250	25%
15.	Employability Skills 60 Hrs	DGT/VSQ/N0102	Core	3	2	60	0			60	50	0			50	5%
	Duration (in Hours) / To	otal Marks				150	300	150		600	200	550	250		1000	

Elective NOS/s:

NA

S. No	NOS/Module Name	NOS/Module	Core/	NCrF/NSQF	Credits	Training Duration (Hours)					Assessment Marks						
		Code & Version (if applicable)	Non- Core	Level	as per NCrF	Th.	Pr.	OJT- Man.	OJT- Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)	
1.									10		Q						
2.																	
Duratio	on (in Hours) / Total Marks																

Optional NOS/s:

NA

S. No	NOS/Module Name	NOS/Module	Core/	NCrF/NSQF	Credits	Training Duration (Hours)					Assessment Marks					
		Code & Version (if applicable)	Non- Core	Level	as per NCrF	Th.	Pr.	OJT- Man.	OJT- Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.																
2.																
Duratio	on (in Hours) / Total Marks															

Assessment - Minimum Qualifying Percentage

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

Minimum Pass Percentage – Aggregate at qualification level: <u>Th. 60% & Pr70</u>% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

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

		Section 5. Training Related
1.	Trainer's Qualification and experience in the	CTS/ATS (Mechanic agricultural machinery) 3 years' experience
	relevant sector (in years) (as per NCVET	OR
	guidelines)	Diploma (Agricultural/Mechanical engineering) 2 years' experience
		OR
		B.Tech / B.E ((Agricultural/Mechanical engineering) 1 year experience
		And
		Certified for Job Role: "Service Assistant (Agriculture Machineries) (QPCode: "STC - AGR/NSQF-2018/802)
		OR "Repair of Agriculture machineries including Diesel Pump Set (STC - AGR/NSQF-2022/0232)".
		Minimum accepted score is 80%.
		Decommonded that the Trainer is cortified for the Joh Deley "Trainer (UET and Chille)" menned to the
		Recommended that the Trainer is certified for the Job Role: "Trainer (VET and Skills)", mapped to the
0	Master Treineria Quelification and comprises	Qualification Pack: "MEP/Q2601, v2.0". Minimum accepted score is 80%
2.	Master Trainer's Qualification and experience	CTS/ATS (Mechanic agricultural machinery) 3 years' experience
	in the relevant sector (in years) (as per NCVET	OR
	guidelines)	Diploma (Agricultural/Mechanical engineering) 2 years' experience
		OR
		B.Tech / B.E ((Agricultural/Mechanical engineering) 1 year experience
		Certified for Job Role: "Service Assistant (Agriculture Machineries) (QPCode: STC - AGR/NSQF-2022/0232)
		And Contribution on any domain abill of NSOF Loyal E with opportunity or in training activities in similar field
0	Table and Frankrass (Demained for Table in a	Certified on any domain skill of NSQF Level 5 with experience in training activities in similar field.
3.	Tools and Equipment Required for Training	$\sqrt{\Box}$ Yes \Box No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any	No
	Upskilling Required for Trainer	

Section 3: Training Related

		Section 4: Assessment Related
1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	CTS/ATS (Mechanic agricultural machinery)3 years' experience OR Diploma (Agricultural/Mechanical engineering) 2 years' experience OR B.Tech / B.E ((Agricultural/Mechanical engineering) 1 year experience And Certified for Job Role: "Service Assistant (Agriculture Machineries) " mapped to QP: STC - AGR/NSQF-2022/0232". Minimum accepted score is 80%. Recommended that the Assessor is certified for the Job Role: "Assessor (VET and Skills)", mapped to the Qualification Pack: "MEP/Q2701, v2.0". Minimum accepted score is 80%
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	CTS/ATS (Mechanic agricultural machinery) 3 years' experience OR Diploma (Agricultural/Mechanical engineering) 2 years' experience OR B.Tech / B.E ((Agricultural/Mechanical engineering) 1 year' experience
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	CTS/ATS (Mechanic agricultural machinery) 3 years' experience OR Diploma (Agricultural/Mechanical engineering) 2 years' experience OR B.Tech / B.E ((Agricultural/Mechanical engineering) 1 year experience
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	Same as for training $\Box \checkmark$ Yes \Box 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): No
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: 4
5.	Estimated nos. of persons to be trained and employed: 1500
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: Yes
	If "No", why:

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	Annexure 1
	descriptors (Mandatory)	
2.	Annexure: List of tools and equipment relevant for qualification	Annexure 2
	(Mandatory, except in case of online course)	
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Annexure 6
4.	Annexure: Assessment Strategy (Mandatory)	Annexure 7
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of	NA
	delivery is "Blended Learning")	
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification	NA
	has multiple Entry-Exit)	
7.	Annexure: Acronym and Glossary (Optional)	Annexure 8
8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Yes
9.	Supporting Document: Career Progression (Mandatory - Public view)	Yes in Q file
10.	Supporting Document: Occupational Map (Mandatory)	Yes in Q File
11.	Supporting Document: Assessment SOP (Mandatory)	Yes in Model Curriculum
12.	Any other document you wish to submit:	NO

Annexure 1: Evidence of Level

NCrF/NSQF Level	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the	NCrF/NSQF
Descriptors		NCrF/NSQF level descriptor	Level
Professional Theoretical Knowledge/Process	Job holder will be able to repair or maintain different components of agricultural machinery such as crop production machinery, engine tractor and power tiller, plant protection and irrigation equipment along with electric motor.	Job holder will understand and comply with safety practices while undertaking works in minor repairing. The nature of work involved is repetitive and routine.	3
Professional and Technical Skills/ Expertise/ Professional Knowledge	 Job holder will be able to Understand fundamental crop production machinery, engine tractor and power tiller, plant protection and irrigation equipment along with electric motor related theories, Identify different components of crop production machinery, engine tractor and power tiller, plant protection and irrigation equipment along with electric motor. Identify different components of IC engine and electric motor. 	Job holder will understand the basic concepts, facts, principles and processes in relation with working of machineries involved in activities of Agriculture. It is also expected that the job holder will be able to comprehend repairing practice.	

	Use different tools & equipment		
	Understand basic principles for IC engine & electric motor		
Employment Readiness	The user/individual will know and understand how to:	The job holder will demonstrate use of various	3
& Entrepreneurship	 assess trouble shooting related IC engine and Electric motor 	tools and materials used to repair or maintain	
Skills & Mind- set/Professional Skill	dismantling/overhauling engine or motor	machine parts. He/ she will be also able to demonstrate proper process for replacement	
	decide whether worn out parts may be repaired	of parts of machineries. The range of	
	Iubricating movable parts	application of practical skill is narrow and	
	Replace un-repairable parts	repetitive.	
	Reassembling all components of IC engine and electric motors		
Broad Learning	The job holder will be able to	The job holder will be able to communicate	3
Outcomes/Core Skill	 read at least two languages, preferably in the local language of the site and basic English 	clearly, both in writing and orally, with co- workers, supervisors and customers. He will	
	 read and interpret safety sign boards, signage, tags etc. provided at work place 	be able to use basic arithmetic calculations for his work and use basic banking services both on professional and personal level.	
	 speak in at least one language, preferably in one of the local languages of the site 		
	listen and interpret instructions / communication by co-workers		
	 listen and follow instructions given by supervisor 		
	orally and effectively communicate with team members		
	 engage in basic financial and banking transactions 		
	Understand principles of time management and entrepreneurship		
Responsibility	The job holder will work under the close supervision of supervisor and he will be responsible for	The job holder will demonstrate use of various tools and materials, repairing of different	3
	 Understanding safety compliance while working at soft floor 	types of Agri equipment's and machineries	
	Preventing loss of human life by use of appropriate safety rules.	including Diesel pump set. The range of application of practical skill is narrow and	
	Distinguishing between petrol and diesel engines	repetitive.	
	Identify hand tools		
	• Identifying different types of agri -machines and single handled make servicing of them.		

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

List of Tools and Equipment

Batch Size: 30

LIST (OF GENERAL TOOLS & EQUIPMENTS:	(For Batch of 30 Candidates)			
S No.	Name of the Tool & Equipment	Specification	Quantity		
1.	Laptop & LCD Projector,	Standard & available size	1 no each		
2.	White board, Marker,	Minimum 5'X4'	2 no each		
3.	Record book, Balanced Feed Chart,	Standard & available size	2 no each		
4.	Public address system	-Do-	1 no		

N.B.: To conduct Practical for trainees on related trade/discipline, a farm machinery shed with the following machines and implements are prerequisite for handson skill development in training.

S No.	Name of the Farm Equipment's	Specification	Quantity
1.	Farm Machinery shed	Space: 25'X40'.	1000 Sqft.
2.	Tractor	35-50 HP	1 no
3.	Power tiller	12-16 HP	1 no
4.	Mould Board plough	2-bottom	1 no
5.	Disc plough	2-bottom	1 no
6.	Rotavator	1.8 m width	1 no
7.	Disc Harrow	2-gang; 11-13 disc	1 no
8	Cultivator	9-11 tines	1 no

9	Multi crop seed drill	9-11 rows	1 no
10	Paddy Transplanter	6-8 row	1 no
11	Power Reaper	Self-propelled	1 no
	Knapsack sprayer	14 litre,	2 nos
	Power sprayer	Battery operated	2 nos
12	Mini Combine harvester	1.2-1.5 m width	1 no
13	Paddle thresher	Standard	1 no
14	Power thresher	Standard	1 no
15	Engine cut models	Laboratory standard	4 nos
16	Diesel Engine	5 hp	1 no
17	Motor	1-2 hp	1 no
18	Pump set	Centrifugal	1 no
19	Air-compressor	portable	1 no
20	Hand tools/ Kit box	Standard	4 nos

Classroom Aids

The aids required to conduct sessions in the classroom are:

- 1. White Board
- 2. White board writing pen
- 3. Projector
- 4. Computer

Annexure 3: Industry Validations Summary	
Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.	

S. N o	Organization Name	Representativ e Name	Designatio n	Contact Address	Conta ct Phon e No	E-mail ID	LinkedIn Profile (if available)
1.	Red Cow Dairy Pvt. Ltd	Bijan Bishnu	Asst. Manager	Nandan Housing Complex, Station Road, Hooghly	90730 22965	Bishnubij anfp700 7@gmail .com	
2.	Krishna Chandra Dutta (Spice) Pvt Ltd	Dr.Dipan Chatterjee	Food technology & quality control manager	02	98305 65872	dipanch atterjee @cook me.com	
3.	M/s Foodies Agro	Mr. Monoj Mishra	Proprictor	Beharampur, Murshidabad	97751 86565	foodiesa gro@re diffmail. com	
4	Mahindra & Mahindra Ltd	Soumitra Choudhury	Head – Training & Skill Developme nt	Midc area, Hingna Road, Nagpur 440016	97666 99020	Choudh ury.sou mitra@ mahindr a.com	

Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Tota	Candidates		Women	People with Disability		
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	
2023- 24	1500	100% self employed	591	100% self employed			
		ange 1					

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
1.0	2020-21	1200	1110	1110	100%			104	100%				
					(self				(self				
					employed)				employed				
	2021-22	1100	1030	1030	100%			40	100%				
					(self				(self				
					employed)				employed				

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

1. State Level Short Term Program under "Utkarsh Bangla" Scheme.

Content availability for previous versions of qualifications:

 \Box Participant Handbook \Box Facilitator Guide \Box Digital Content $\sqrt{\Box}$ Qualification Handbook \Box Any Other:

Languages in which Content is available: English

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools: NA

Refer NCVET "Guidelines for Blended Learning for Vocational Education, Training & Skilling" available on:

https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	Theory/ Lectures - Imparting theoretical and conceptual knowledge	NA	NA
2	□ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	NA	NA
3	□ Showing Practical Demonstrations to the learners	NA	NA
4	□ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	NA	NA
5	Tutorials/ Assignments/ Drill/ Practice	NA	NA
6	Proctored Monitoring/ Assessment/ Evaluation/ Examinations	NA	NA
7	Industry Exposure/ Project Work Internship/ Apprenticeship Training	NA	NA

Annexure 6: 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
	Apply Safe Working Practices	14	30		
AGR/0232/OC1,V2.0	 (1.1) Maintain procedures to achieve a safe working environment in line with occupational health and safety regulations and requirements according to site policy. (1.2) Recognize any unsafe situations according to site policy, and assess his report accordingly. (1.3) Identify and take necessary precautions on fire and safety hazards and report according to site policy and procedures. (1.4) Demonstrate Personal Productive Equipment (PPE) like: safety helmet, safety glove, safety shoe (1.5) Demonstrate basic first aid & CPR and use them under different 				
	circumstances.				
	Total Marks	14	30		
	Identify and select various agricultural machineries and describe the uses of each.	14	30		
	(2.1) Identify different agricultural machineries.				
AGR/0232/0C2,V2.0	(2.2) Illustrate the application of each				
	(2.3) Locate and identify the different accessories as per applications				
	Total Marks	14	30		
AGR/0232/0C3,V2.0	Describe the operations of Tillage implements, demonstrate its	14	30		
	working, identify the faults and repair.				
	(3.1) State the types and necessity of Tillage.				
	(3.2) Demonstrate functions and types of implements for primary and				
	secondary tillage operations.				
	(3.3) Demonstrate Constructional parts and working of Mouldboard plough,				
	Disk Plough, Cultivators, Disk Harrow, Bund former.				
	(3.4) Adjust the alignment, take care and safety precautions				
	(3.5) Demonstrate common faults and remedies regarding tillage implement.				
	Total Marks	14	30		

	Describe the operations of seeding machinery, its working, identify the faults and repair.	14	30	
	(4.1) Demonstrate different methods of sowing such as drilling, dibbling, planting etc.			
	(4.2) Recognize different implements used for sowing /planting and			
AGR/0232/0C4,V2.0	transplanting (4.3) Demonstrate constructions and working principle of seed-drill, planters and seed cum fertilizer drill.			
	(4.4) Identify common faults and remedies regarding seeding machineries.			
	(4.5) Adjust the alignment, take care and safety precautions regarding seeding machineries.			
	Total Marks	14	30	
	Recognize different components, different faults, their cause & repair	10	50	
	minor faults concern with Harvesting machineries and Threshing			
	machineries			
	(5.1) Demonstrate different types of Threshing Machinery such as manual and			
	power operated.			
AGR/0232/0C5,V2.0	(5.2) Describe construction and working principle of hand and paddle threshers,			
	power threshers as well as Combine Harvester.			
	(5.3) Identify common faults and remedies regarding manually operated and			
	machine operated threshing machineries.			
	(5.4) Adjust the alignment, test and safety precautions regarding threshing			
	machineries. Total Marks	10	50	
	Classify IC engines used in agriculture, explain the working of engine	10	50	
AGR/0232/0C6,V2.0	system, fuel system, cooling system, lubricating system, inlet & exhaust			
	system, rule system, cooling system, had reading system, met a exhaust system with the help of flow charts			
	(6.1) Demonstrate different types of IC engine.			
	(6.2) Describe the characteristics, application of two stroke and four stroke			
	engine.			
	(6.3) Recognize different parts of an IC engine and the function of each.			
	(6.4) Describe components and function of different systems concerned with			
	engine such as engine system, fuel system, cooling system, lubricating system,			

	inlet & exhaust system with the help of flow chart.			
	(6.5) Dismantle the engine, clean different parts, detect the fault, rectify and			
	refit.			
	(6.6) Identify different parts such as couplings, pipes, glands, gaskets etc.			
	(6.7) Identify the defects and perform repairing of the same.			
	(6.8) Perform alignment test for engine and its adjustment			
	Total Marks	10	50	
	Identify and Describe different component and systems of Tractor and repair minor faults	10	50	
AGR/0232/0C7,V2.0	(7.1) State different makes and models of Tractor			
, , ,	(7.2) Describe different components and systems of Tractor			
	(7.3) State tractor controls and matching implements			
	Total Marks	10	50	
	Identify and Recognize different component and systems of Power Tiller and rectify minor faults	10	50	
	(8.1) State Different makes and models of Power Tiller.			
AGR/0232/0C8,V2.0	(8.2) Trainee will be asked to demonstrate different components and systems			
	of Power Tiller			
	(8.3) State power tiller controls and matching implements			
	Total Marks	10	50	
	Demonstrate different component and systems of Plant Protection	10	50	
	Equipment and rectify minor faults			
AGR/0232/0C9,V2.0	(9.1)Demonstrate Plant Protection Equipment			
	(9.2) Describe use and application of Agricultural Chemicals			
	(9.3)Demonstrate types of sprayers & their uses, construction and function			
	Total Marks	10	50	
	Exhibit different component and systems of Irrigation Equipment and rectify minor faults	10	50	
	(10.1)State Importance of irrigation and methods of Irrigation.			
	(10.2) Describe types of pumps, principles of operation, their constructional			
AGR/0232/0C10,V2.0	details and application.			
	(10.3) Demonstrate estimation of head, discharge and power requirement.			
	(10.4) Demonstrate Sprinkler irrigation system and equipment, importance and			
	utility			

	(10.5)Demonstrate drip irrigation system and equipment, importance and				
	utility				
	(10.6) Demonstrate pipe fitting techniques and field layouts				
	Total Marks	10	50		
	Demonstrate different component and systems of electric motor used in Pump Set for Agricultural use and rectify minor faults	10	50		
	(11.1) Demonstrate types of electric motors used in pump sets, tube wells, threshers etc.				
	(11.2) Identify the selection method of electric motors.				
AGR/0232/0C11,V2.0	(11.3) Demonstrate about care, maintenance and installation of electric motors.				
	(11.4) Demonstrate electric motor trouble shooting, periodic servicing and off-				
	season storage (11.5) Install electric motor; check the circuit, starter fitting and setting. (11.6) Demonstrate safety, precautions in handling electrical appliances & motors.				
	Total Marks	10	50		
	Understand principles of pump set, their components, common faults	10	50		
	and dismantling different parts.				
	(12.1) Trainee will be asked to demonstrate general ideas on pumps along with				
AGR/0232/0C12,V2.0	common faults concerned with pumps.				
	(12.2) Assessor will rate the trainee on his ability to dismantling and reassembly				
	of the parts to make a complete pump set.				
	(12.3) Trainee will be asked to perform Alignment test for and its adjustment.				
	Total Marks	10	50		
	Calculate rough estimation and costing of repair work for each	14	30		
AGR/0232/OC13,V2.0	machinery				
	(13.1) Calculate the costing for different parts, their costs, brand names of				
	parts, costs etc.,				
	(13.2) Make the report on Market survey.				
	(13.3) Prepare of an estimate for a repair work-overhauling of an engine etc				
	Total Marks	14	30		
AGR/0232/0C14,V2.0	Work in real job situation with special emphasis on basic safety and hazards in this domain.	0	0	250	

	(14.1) Assessor will check report prepared for this component of training of the				
	course and assess whether competency has been developed to work in the real				
	job situation with special emphasis on basic safety and hazards in this domain.				
	Total Marks	0	0	250	
	Employability Skills- 60 hrs.	50	0		
DGT/VSQ/N0102	As per NCVET approved course module for 60 Hrs				
	Grand Total		550	250	

Annexure 7: 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. *Mention the detailed assessment strategy in the provided template.*

<1. Assessment System Overview:

- Batches assigned to WBSCTVE&SD for conducting the assessment online through Portal with two probable dates for Assessment
- WBSCTVE&SD deploys the ToA certified Assessor for executing the assessment
- WBSCTVE&SD monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then Assessment will spill over to consecutive days.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- 3. Assessment Quality Assurance levels/Framework:
- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified.
- 4. Types of evidence or evidence-gathering protocol:
- reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding
- 5. Method of verification or validation:
- Surprise visit to the assessment location
- 6. Method for assessment documentation, archiving, and access
- Hard copies of the documents are stored

On the Job:

- 1. Each module will be assessed separately.
- 2. The pass criteria is as per norms set by WBSCTVE&SD in respect of Qualification Files
- 3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills, understanding needs & requirements, and perform Soft Skills effectively:

- Videos / portfolio of Trainees during OJT
- 4. Assessment of each Module will ensure that the candidate is able to:
- Effective engagement with the stakeholders
- Understand the working of various tools and equipment
- Deliver the job assigned to him/her in conformity with job responsibility ascribed to Qualification File.

Annexure 8: Acronym and Glossary

Description	
Assessment Agency	
Awarding Body	
International Standard Classification of Occupations	
National Classification of Occupations	
National Credit Framework	
National Occupational Standard(s)	
National Qualification Register	
National Skills Qualifications Framework	
On the Job Training	
	Assessment Agency Awarding Body International Standard Classification of Occupations National Classification of Occupations National Credit Framework National Occupational Standard(s) National Qualification Register National Skills Qualifications Framework

Glossary

Clocoury	
Term	Description
National Occupational	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual
Standards (NOS)	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