



QUALIFICATION FILE

Soil and Water Conservation Supervisor

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship

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

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

NCrF/NSQF Level: 5

Submitted By:

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Section 1: Basic Details

1.	Qualification Name	Soil and Water Conservation Supervisor																			
2.	Sector/s	Agriculture																			
3.	Type of Qualification: ☒ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i> NA	Qualification Name of existing/previous version: NA																		
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	NA																			
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-05-AG-04286-2025-V1-CUTM	6. NCrF/NSQF Level: 5																		
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate (Soil and Water Conservation Supervisor)																			
8.	Brief Description of the Qualification	The individual will get detailed insights on watershed processes and hydro-climatic data processing technique, scientific methodology of maintaining data records, maintenance of equipment, design consideration of different soil and water conservation structures for minimizing soil erosion and improving crop production.																			
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	Entry Qualification & Relevant Experience: <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 Diploma or equivalent in agriculture/agricultural engineering</td> <td>NA</td> </tr> <tr> <td>2</td> <td>UG Certificate in agriculture/agricultural engineering</td> <td>1.5 years of relevant Experience</td> </tr> <tr> <td>3</td> <td>12th Grade pass</td> <td>3 years of relevant Experience</td> </tr> <tr> <td>4</td> <td>Relevant NSQF level 4 job role certified person</td> <td>3 years of relevant Experience</td> </tr> <tr> <td>5</td> <td>Relevant NSQF level 4.5 job role certified person</td> <td>1.5 years of relevant Experience</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	UG Diploma or equivalent in agriculture/agricultural engineering	NA	2	UG Certificate in agriculture/agricultural engineering	1.5 years of relevant Experience	3	12 th Grade pass	3 years of relevant Experience	4	Relevant NSQF level 4 job role certified person	3 years of relevant Experience	5	Relevant NSQF level 4.5 job role certified person	1.5 years of relevant Experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																			
1	UG Diploma or equivalent in agriculture/agricultural engineering	NA																			
2	UG Certificate in agriculture/agricultural engineering	1.5 years of relevant Experience																			
3	12 th Grade pass	3 years of relevant Experience																			
4	Relevant NSQF level 4 job role certified person	3 years of relevant Experience																			
5	Relevant NSQF level 4.5 job role certified person	1.5 years of relevant Experience																			

10.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	21	11. Common Cost Norm Category (I/II/III) <i>(wherever applicable):</i> II																		
12.	Any Licensing requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	NA																			
13.	Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	☒ Offline ☐ Online ☐ Blended <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>218</td><td>352</td><td>60</td><td>0</td><td>630</td></tr> <tr> <td>Online</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> <i>(Refer Blended Learning Annexure for details)</i>		Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	218	352	60	0	630	Online	-	-	-	-	-
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																
Classroom (offline)	218	352	60	0	630																
Online	-	-	-	-	-																
14.	Aligned to NCO/ISCO Code/s <i>(if no code is available mention the same)</i>	2132.0400																			
15.	Progression path after attaining the qualification <i>(Please show Professional and Academic progression)</i>	Professional progression: Watershed Manager ↑ Soil and Water Conservation Supervisor																			
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi																			
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:																			
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:																			
19.	How Participation of Women will be Encouraged	An increasing population of educated and working women needs inclusion, by formulating policy measures on skilling, job creation, and support services. Women comprises of >30% of the laborers among micro, small and medium enterprises. Opportunities for work that is proximate, child care facilities, safe transportation, gender acceleration plan and return to work (women to																			

		join back the workforce after motherhood) go a long way in increasing the proportion of women in the workforce.	
20.	Are Greening/ Environment Sustainability Aspects Covered <i>(Specify the NOS/Module which covers it)</i>	☐ Yes ☒ No	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☐ No Colleges ☒ Yes ☐ No	
22.	Name and Contact Details of Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Partha Sarathi Mohanty Email: partha@cutm.ac.in Contact No.:9937033338 Website: https://cutm.ac.in	
23.	Final Approval Date by NSQC: 08.05.2025	24. Validity Duration: 3 years from the NSQC approval date	25. Next Review Date: 08.05.2028

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/NSQF 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	Understand about various watersheds processes	CUTM/AGR/N1301,V.1.0	Core	5	3	30	50	10	0	90	40	50	10	0	100	15%
2	Learn Data acquisition and processing techniques for watershed management	CUTM/AGR/N1302,V.1.0	Core	5	3	30	50	10	0	90	40	50	0	0	90	15%
3	Perform the process of delineation of watershed	CUTM/AGR/N1303,V.1.0	Core	5	3	30	50	10	0	90	40	50	0	0	90	15%
4	Study about the processes to improve soil quality	CUTM/AGR/N1304,V.1.0	Core	5	3	30	50	10	0	90	40	50	10	0	100	15%
5	Design of different Soil and Water Conservation Structures based requirements	CUTM/AGR/N1305,V.1.0	Core	5	4	40	70	10	0	120	40	50	10	0	100	15%
6	Improve groundwater quality and recharge	CUTM/AGR/N1306,V.1.0	Core	5	3	30	50	10	0	90	40	50	10	0	100	15%
7	Employability Skills	DGT/VSQ/N0102,V.1.0	Non-Core	5	2	28	32	0	0	60	40	50	0	0	90	10%

Duration (in Hours) / Total Marks		5	21	218	352	60	0	630	280	350	40	-	670	100%
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Elective NOS/s:

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.	NA															
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s:

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.	NA															
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

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

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

Minimum Pass Percentage – NOS/Module-wise: 70 % (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) <i>(as per NCVET guidelines)</i>	B. Tech in Agricultural Engineering with 3 years of Industry experience and 1 year training experience
2	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	B. Tech in Agricultural Engineering with 5 years of Industry experience and 1 year training experience
3	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
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) <i>(as per NCVET guidelines)</i>	Bachelor in Agriculture with 3 years of Industry experience and 1 year training experience
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Bachelor degree with 1 year online assessment experience Bachelor degree with 7 years of Industry experience and 1 year Assessment experience.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i> Graduate in Agriculture or Science with 6 years of industry relevant experience and 1 year of Training experience
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Offline / Online mode for special cases
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 30 industry validation
5.	Estimated nos. of persons to be trained and employed: 600 in 3 years
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 descriptors <i>(Mandatory)</i>	Yes
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Yes
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Yes
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Yes
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is "Blended Learning")</i>	NA
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	NA
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	Yes
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Yes
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	Yes
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	Yes
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	Yes
12.	Any other document you wish to submit:	NA

Annexure: 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.	Work on complex, non-routine tasks with significant choice • Demonstrate an in-depth understanding of Soil and Water Conservation processes and methodologies. • Apply theoretical knowledge to handle intricate aspects of Soil and Water Conservation projects. • Execute comprehensive analysis of project requirements using theoretical knowledge. • Apply knowledge of natural preservatives and sustainable practices in the process. • Stay updated on industry standards and regulations, ensuring compliance of the process or projects. • Apply knowledge of technologies • Demonstrate adaptability to evolving technologies and continuous learning.	Effectively manage the projects from initiation to completion, ensuring adherence to timelines, budgets, and quality standards.	5
Professional and Technical Skills/ Expertise/ Professional Knowledge	Factual knowledge of field of knowledge or study. • Work in unfamiliar and unpredictable conditions. • Implement innovative solutions and advanced technologies • Conduct training sessions on specialized methodologies and tools for team members. • Demonstrate proficiency in software for automation of workflows. • Apply knowledge of Building SMART standards for interoperability and collaboration in BIM projects. • Show case expertise in BIM-related technologies such as laser scanning, reality capture, and augmented reality for project enhancement. • Demonstrate adaptability to evolving technologies and continuous learning in the BIM field.	Utilize advanced BIM software tools for intricate modeling, coordination, and analysis, ensuring accuracy and efficiency in project development.	5

Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Recall and demonstrate practical skill, routine and repetitive in narrow range of application - Recall and demonstrate practical skill, routine, and repetitive tasks involved in the projects. - Maintain work-related notes and records. - Read the relevant literature to get the latest updates about the field of work. - Perform basic calculations. - Listen attentively to understand the information/instructions being shared. - Communicate clearly and politely. - Plan and prioritize tasks to ensure timely completion. - Evaluate all possible solutions to a problem to select the best one. Co-ordinate with co-workers to achieve work objectives.	Implement innovative solutions and advanced technologies in the processes to enhance project efficiency and deliverables. Training and Knowledge Sharing: Conduct training sessions on specialized BIM methodologies and tools for team members, contributing to the skill development of the workforce.	5
Broad Learning Outcomes/Core Skill	Language to communicate written or oral, with required clarity, skill of basic arithmetic and algebraic principles, personal banking, basic understanding, understanding of social and natural environment - Perform language and arithmetic tasks with required clarity. - Communicate effectively, both in written and oral formats, for clear project documentation and client interactions. - Utilize mathematical skills for accurate calculations and data analysis in the projects. - Contribute to a positive work environment by adhering to organizational procedures and policies. Continuously update knowledge to incorporate the latest industry trends and advancements in the projects.	Programming Proficiency: Demonstrate proficiency in programming languages for automation in the workflows, optimizing project processes. Technological Adaptability: Stay updated on industry standards and emerging technologies, showcasing adaptability to evolving tools and methodologies in the field.	5

Responsibility	Responsibility for own work and learning - Take responsibility for own work and learning. - Exhibit responsibility in managing the projects from conceptualization to completion, ensuring quality and compliance. - Implement Health and Safety measures in the workplace, taking responsibility for the well-being of oneself and others. Prioritize health and safety, taking responsibility for maintaining a secure workplace.	Problem Solving and Decision Making: Evaluate all possible solutions to problems, making informed decisions to address challenges in the projects. Continuous Learning: Demonstrate a commitment to continuous learning, staying informed about the latest industry trends and advancements in engineering.	5
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Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 25

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Analytical balances		3 set
2	Atomic absorption spectrophotometer		1 set
3	Chlorine test kits		1 set
4	Computer software		25 set
5	Conductivity meter		5 set
6	Deionized water		1 set
7	Dissolved oxygen meter		5 set
8	Flame photometer		1 set

9	Hydrometers		10 set
10	Nitrate and phosphate test kits		2 set
11	Personal protective equipment		25 set
12	pH meter:		2 set
13	Portable water quality test kits		5 set
14	Sieves		2 set
15	Soil auger or soil probe		10 set
16	Soil corer		25 set
17	Soil moisture meter		25 set
18	Soil sampling bags or containers		25 set
19	Soil temperature probe		5 set
20	Soil test kits		5 set
21	Soil testing reagents		2 set
22	Spectrophotometer		1 set
23	Total dissolved solids (TDS) meter		5 set
24	Turbidity meter		5 set
25	Water sampler		5 set
26	Water sampling bottles or containers		25 set
27	Water testing reagents		2 set

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Personal Computer
2. Projection Equipment

3. White Board
4. Board Marker
5. PowerPoint Presentation
6. Participant's Handbook.

Annexure: 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	Adivasi Development Society (ADS)	Asino Gomango	Secretary	At/Po- Gumma, Gaiba Road, Dist-Gajapati, Odisha, India, Pin-761207	6815282671	adsodisha@gmail.com	NA
2	Anshupa Farmers Producer Company Limited	Sammohan Bibhutiray	Managing Director (MD)	Plot tio530, UCO Bank Colony, Jharpada, Bhubaneswar, Bhubaneswar, Odisha Dist- Khurdha, PIN 751006	9437541169	afpc92ugmail.com	NA
3	Arogya Millets Producer Company Limited	Usharani Ganthakora	Director	Flat no.6, first floor of SBI, Opp: Police station, Kothavalasa, Vizianagaram, Andhra Pradesh, PIN: 535183	8639277205	arogyamilletsfpo@gmail.com	NA
4	ANGARALAMMA SAHAJA FARMERS PRODUCER COMPANY LIMITED	Chiranjeevi Neechuka	Director	Pedakarja, Gummalaxmi Puram Vizianagaram,	NA	artskurupam@yahoo.co	NA

				Andhra Pradesh - 535523,			
5	Basix Krishi Samruddha Limited	Pravat Kumar Nayak	Associate Vice President	3rd Floor, T-1, IBL House, Saibaba Square, Puri Bypass Road, Tankapani road, Bhubaneswar- 751018	7008113223	NA	NA
6	BLOSSOM EDUCATION AND SOCIAL TRUST	Mahebab Shariff	Chairman	Office Address: At- Municipality Square, Ramachandrapur Bazar PO- Jatni, Dist- Khordha State- Odisha, Pin- 752050	8280172557	bestjatni2023@gmail.com	NA
7	BIO PAC ENPUTS PRIVATE LIMIZED	E. SATYANARAYANA REDDY	OPERATIONS & ADMIN HEAD	74C, Anoich Endtoul tate, DOA Bolaia SD2 32s	9133 737737	satyam@biofactor.in	www.Biofats in
8	Bishwa Seva Pratishtan	Arun Kumar Nayak	Secretary	Registration No: 20489/39, sundargarh (ORISSA) Bargaon ITI Campus, At/Po- Bargaon District- Sundargarh Odisha-770016	9777354017,	dr.aknaya17@gmail.com	www.bspindia.org.in
9	BLISS Foundation	Tirtha Chandan Patra	Chairman	: C/O Joel Raju Gupta, Nehru Nagar, Second	9437018337	foundationbliss@gmail.com	http://www.facebook.com/foundationbliss

				Lane, Near Balaji Sweet, Jyoti Foundry, Rayagada – 765001,			
10	Bapuji Rural Enlightenment and Development Society (BREDS)	A. Ramakrishna Raju	CEO - BREDS	Registered Office Address : Madhavadhara, Visakhapatnam – 530018, Andhra Pradesh, India Osisha Office Address: Gumma, Gaiba Road, Dist-Gajapati, Odisha, India, Pin-761207	9347346900	bredsorg@yahoo.co.in	www.bredsindia.org.in
11	Dhenkanal Farmers Producer Company Limited	Sovan Dibya Darsan	Managing Director	Plot no- 62, Kukudajhar, Po-Kaimati, Dhenkanal, Odisha, 759027	9776500040	fpodkl@gmail.com	NA
12	ESSE Naturals & Nutrition Pvt.Ltd	D V V L Narsimha Rao	Director	Plant: Plot No. 1, IDCO Industrial Estate, Village: Ramaswamipur, Paralakhemundi, District: Gajapati, Odisha, 761200	99497 66693	dnrao@cutm.ac.in	
13	FARM BOWLS FARMERS PRODUCER COMPANY LIMITED	J. Kalyani	Farm Bowl Director	W/O SESHAGIRI RAO, H-NO. 1-160, SEETHARAMPALLI VILLAGE, PATHAPATNAM, SRIKAKULAM	9966653234	bredsnabard@gmail.com	

				532213 ANDHRA PRADESH			
14	FRIEND'S ASSOCIATION FOR RURAL RECONSTRUCTION (FARR)	Bijay Kumar Baboo	Chairman	Registered Office Address: Muniguda, Muniguda, Rayagada, Odisha – 765020	+91 6863 5253, +91 6670 230105	farrbkumar@gmail.com	NA
15	General Aeronautics	Abhishek Burman	CEO & Founder Director	F86, First Floor, Vinyas Building, ITI Campus, Doorvaninagar, KR Puram, Bangalore560016		Info@generaleronautics.com	www.generalaeronautics.com
16	Giri chaitanya Farmers Producer Company Limited	Siddipalem Appanna	Director	Praharajapalem, Pathapatnam, Srikakulam Dist, A.P - 532213	63037 16081	girichaitanyafpc@gmail.com	
17	Gram Tarang Inclusive Development Services Pvt. Ltd	B. Venkata Sivananda Kumar	Managing Director	39-33-33, 1st Floor, B-107, Vuda Colony, Madhavadhara, Visakhapatnam - 530018	73820 92355	venkat@gramtarang.org	Website: www.gramtarang.org
18	GRAMTARANG TECHNOLOGIES PRIVATE LIMITED	B. Venkata Sivananda Kumar	Director	D No-50-42/21/4, Flat No 501, P& T Colony, Seethammadhara, Vishakhapatnam – 530013	73820 92355	venkat@gramtarang.org	NA

19	Manikanta Farmer Producer Company Limited	Thirumalaraju Aruna	Director	Door No: 0-0, Avagudem Juctio Bogavaiaasa, Baguvaiaas Chipurupalle, Merakamudidam, Vizianagaram, Andhra Pradesh - 535128	NA	garividifpc@gmail.com	NA
20	Megam Foundation	NA	Chairman	No. 520A, Madathululam Main Road, Sozhamadevi Village, Kaniyur Tiruppur, Tamil Nadu- 642203	7904590954	megam4bharath@gmail.com	NA
21	MAKKUVA FARMERS PRODUCER COMPANY LIMITED	Marri Rajayya	Director	House No. 1-5, Chimidivalasa Village, St Colony, Duggeru, PostPanasabhdra Panchayat, Makkuva Mandal, Parvathi Puram, Manyam Dist Andhra Pradesh, Duggeru, Vizianagaram, Makkuva, Andhra Pradesh, India, PIN: 535547	NA	NA	NA
22	RIVAN SMART MANUFACTURING PRIVATE LIMITED	Arun Manohar	CEO	3-9/3/7, TF-1, Kommadhi, Revenue Ward 4,	7751053118	amgurram@cutmap.ac.in	NA

				Visakhapatnam, AP, 530048			
23	SRI AKULAMMA THALLI FARMER PRODUCER COMPANY LIMITED	Jagannath Behera	CEO	00-11, Paharajapalem, Pathapatnam, Srikulam Dist- 532215	9704181544	beherajagannath03 @gmail.com	NA
24	Shakti Organisation Catalysing Sustainable Development	Akhil Ranjan Panda	CEO	Registered Office Address: PO Box 22, 2nd Lane, Sai Priya Nagar, Rayagada	9437125605	shaktiorg@gmail.c om	Website: www.shaktiorg.com
25	UDYAM VIKAS FARMER PRODUCER COMPANY LIMITED	Tara Srinivas	Project Head	ADS Compound, Gumma, Gaiba Road, Gajapati, Odisha, 761207,	9348385804	tsreddy74@gmail.c om	NA
26	Veda Vahini Farmer Producer Company Limited	Lenka Rupadevi	Chairman	Billalavalasa, Bondapalli Mandal, Vizianagaram district, Andhra Pradesh, 535260	9381431483	vedavahinifpo@gm ail.com	NA
27	Vinoo Producer Company Limited	Gadhipalli Chinnayya	Director	LIG 147, 1St Floor, Vuda Colony Baba Metta Vizianagaram AP 535002	NA	gudipatirkrishna@ yahoo.co.in	NA
28	Zifo	Kamalahasan N	Head – HR	21A, Anna Salai, Little Mount, Saidapet, Chennai, Tamil Nadu 600015.	7008507829	hr@zifo.com	NA

29	Mahanadi Aqua Fresh LLP	Sri. A K Sharda	Director	At – Plot No – 5, Surya Vihar, Near – Union Bank , Nandankan Road, Bhubaneswar – 24, Odisha	9437000635	aksharda@gmail.com	NA
30	Global Agro Chem (P) LTD.	Sunshine Anand Swain	Director	Paniora, Palaspur, Khordha , ODISHA	7381050097	Sunshine.aswain@gmail.com	NA

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2025	100	100	40	40	-	-
2026	400	400	160	100	-	-
2027	500	500	200	200	-	-

Data to be provided year-wise for next 3 years

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	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: English

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

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	
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☐ Showing Practical Demonstrations to the learners		
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		
5	☐ Tutorials/ Assignments/ Drill/ Practice		
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure: Detailed Assessment Criteria

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

NOS / Module Name	Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
CUTM/AGR/N1301: Understand about various watersheds processes	PC1. Collection of localized information related to selected watershed	1	10	2	-
	PC2. Understand various processes involved in a watershed.	7	10	2	-
	PC3. Collect agricultural practice information, climactic data, hydrological data, environmental data, aerial photos, topographic maps, and geological maps from relevant sources	8	10	2	-
	PC4. Identify critical problems of various watersheds based on review of literatures	8	10	2	-
	PC5. Prioritization of Watersheds based on soil erosion hazard and quality of groundwater recharge	8	10	2	-
	PC6. Make a report based on critical evaluation of the watershed	8	-	-	-
	NOS Total	40	50	10	0
CUTM/AGR/N1302: Data acquisition and processing techniques for	PC1. Collect meteorological data at local scale from nearby meteorological laboratory (e.g. Agricultural University, Govt. agricultural dept., Govt. Irrigation dept. etc.)	5	10	-	

watershed management	PC2: Trend analysis of collected meteorological data	5	10	-	
	PC3. Collect soil data at local scale by sampling technique	5	5	-	
	PC4: Soil sample analysis (mention if any assumption made regarding grid size)	5	5	-	
	PC5. Collect soil data at regional scale from National Bureau of Soil Survey & Land use Planning	5	5	-	
	PC6. Collect satellite data from USGS Earth explorer website	5	5	-	
	PC7. Change detection analysis of land use land cover of the watershed	5	5	-	
	PC8. Process the collected satellite data by using software like QGIS and ArcGIS etc.	5	5	-	
	PC9. Make a report based on critical assessment and suggest farmers to act on that.	-	-	-	-
	NOS Total	40	50	0	0
CUTM/AGR/N1303: Delineation of watershed	PC1. Understand the process of Watershed delineation				
	PC2. Learn Digital Elevation Model data.	10	20		
		20	10		

	PC3. Be familiar with various processes involved in watershed delineation.				
	PC4. Study about various map features (flow direction, flow accumulation, stream order etc.)	10	20		
	NOS Total	40	50	0	0
CUTM/AGR/N1304: Improve soil quality	PC1. Improve Soil Organic Matter (SOM) Content	5	5	-	-
	PC2. Monitor and improve nutrient levels	5	5	-	-
	PC3. Maintain optimal soil pH levels	5	10	-	-
	PC4. Assessing soil aggregation, porosity, and compaction by implementing improved soil structure	5	10	10	-
	PC5. Monitor soil erosion rates and sediment loss	5	5	-	-
	PC6. Estimate microbial biomass, enzyme activity, and other indicators of soil health.	10	10	-	-
	PC7. Monitor soil contaminant levels over time	5	5	-	-
	NOS Total	40	50	10	0
CUTM/AGR/N1305: Design of different Soil and Water	<i>Agricultural Measures for soil and water conservation</i>	-	-	-	-

Conservation Structures based requirements	PC1. Understand the designing procedure of contour Farming	2	2	-	-
	PC2. Select suitable crops to control soil and water loss	3	3	-	-
	PC3. Study the importance of crop rotation for soil conservation	2	3	-	-
	PC4. Learn cover crops method	2	3	-	-
	PC5. Understand intercropping system	2	3	-	-
	PC6. Study contour strip cropping	2	3	-	-
	PC7. Learn field strip cropping	3	3	-	-
	PC8. Study wind strip cropping	3	3	-	-
	PC9. Understand buffer strip cropping	1	2	-	-
	PC10. Learn plastic Mulching	1	3	-	-
	PC11. Understand conservation tillage	1	2	-	-

PC12. Learn adoption of organic farming strategies for controlling soil loss	1	3	-	-
PC13. Study ridge and furrow farming system of farming	1	3	-	-
PC14. Understand broad bed and furrow system of farming	1	1	-	-
<i>Agroforestry measures for soil and water conservation</i>	-	-	5	-
PC15. Learn Agri – silvi culture	1	1	-	-
PC16. Study Agri-Horticulture	1	1	-	-
PC17. Understand Alley cropping	1	1	-	-
PC18. Learn Silvi-pasture system	1	1	-	-
<i>Mechanical measures for soil and water conservation</i>	-		5	-
PC19. Design Contour bunding	1	1	-	-
PC20. Design Graded bunding	1	1	-	-
PC21. Learn Peripheral bunding	1	1	-	-
PC22. Design continuous contour trenches	3	1	-	-
PC23. Design staggered contour trenches	2	2	-	-
PC24. Learn designing procedure of Bench terraces	1	1	-	-

	PC25. Understand designing procedure of loose boulder/stone/masonry check dams	1	1	-	-
	PC26. Understand designing procedure of brushwood check dams	1	1	-	-
	NOS Total	40	50	10	0
CUTM/AGR/N1306: Improve groundwater quality and recharge	<i>Groundwater Quality Improvement</i>				
	PC1. Monitor and reduce the concentration of contaminants such as nitrates, pesticides, heavy metals, and other pollutants in groundwater.	2	5		
	PC2. Assess toxicity of groundwater to aquatic organisms and human health through bioassays and chemical analyses.	1	6		
	PC3. Implement groundwater extraction practices that do not deplete aquifer resources beyond recharge rates, prevent saltwater intrusion and land subsidence.	1	5		
	PC4. Establish and enforce regulations to protect recharge areas from contamination sources, such as industrial sites, landfills, and agricultural runoff.	2	5		
	<i>Groundwater Recharge Improvement</i>			10	
	PC5. Monitor changes in groundwater recharge rates through hydrological modeling, groundwater level measurements, and recharge area assessments	3	5		
	PC6. Implement storm water management practices (e.g., rain gardens, permeable pavement) to enhance infiltration and groundwater recharge from urban areas.	2	2		

	PC7. Implement artificial recharge techniques such as infiltration basins, recharge wells, and injection of treated wastewater to augment natural recharge rates.	3	2		
	PC8. Improve soil permeability through practices like cover cropping, reduced tillage, and soil amendments to enhance infiltration and recharge rates	5	2		
	PC9. Restore or preserve wetlands and riparian zones to promote groundwater recharge through increased groundwater-surface water interaction	5	2		
	PC10. Establish protected areas or buffer zones around recharge areas to prevent contamination and maintain recharge capacity	5	3		
	P11. Promote water conservation practices to reduce water demand and increase available water for recharge.	5	5		
	PC12. Install monitoring wells to track changes in groundwater levels and quality in recharge areas and evaluate the effectiveness of recharge enhancement measures.	3	5		
	PC13. Engage local communities in groundwater conservation and recharge efforts through education, outreach, and participation in planning processes	3	3		
	NOS Total	40	50	10	0
DGT/VSQ/N0102: Employability Skills	<i>Introduction to Employability Skills</i>			-	-
	PC1. Understand the significance of employability skills in meeting the current job market requirement and future of work	1	2	-	-
	PC2. Identify and explore learning and employability relevant portals	1	2	-	-

PC3. Research about the different industries, job market trends, latest skills required and the available opportunities	1	2	-	-
<i>Constitutional values – Citizenship</i>			-	-
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.	1	2	-	-
PC5. Follow environmentally sustainable practices	1	2	-	-
<i>Becoming a Professional in the 21st Century</i>			-	-
PC6. Recognize the significance of 21st Century Skills for employment	1	1	-	-
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	1	1	-	-
PC8. Adopt a continuous learning mindset for personal and professional development	1	1	-	-
<i>Basic English Skills</i>			-	-
PC9. Use basic English for everyday conversation in different contexts, in person and over the telephone	1	1	-	-
PC10. read and understand routine information, notes, instructions, mails, letters etc. written in English	2	1	-	-

PC11. write short messages, notes, letters, e-mails etc. in English	1	2	-	-
<i>Career Development & Goal Setting</i>			-	-
PC12. Identify career goals based on the skills, interests, knowledge, and personal attributes	1	1	-	-
PC13. Prepare a career development plan with short- and long-term goals	1	2	-	-
<i>Communication Skills</i>			-	-
PC14. Follow verbal and non-verbal communication etiquette while communicating in professional and public settings	1	2	-	-
PC15. Use active listening techniques for effective communication	1	2	-	-
PC16. Communicate in writing using appropriate style and format based on formal or informal requirements	1	2	-	-
PC17. Work collaboratively with others in a team	1	2	-	-
<i>Diversity & Inclusion</i>			-	-
PC18. communicate and behave appropriately with all genders and PwD	1	2	-	-
PC19. Escalate any issues related to sexual harassment at workplace according to POSH Act	1	2	-	-
<i>Financial and Legal Literacy</i>			-	-

	PC20. Identify and select reliable institutions for various financial products and services such as bank account, debit and credit cards, loans, insurance etc.	1	2	-	-
	PC21. Carry out offline and online financial transactions, safely and securely, using various methods and check the entries in the passbook	1	2	-	-
	PC22. Identify common components of salary and compute income, expenses, taxes, investments etc	1	2	-	-
	PC23. Identify relevant rights and laws and use legal aids to fight against legal exploitation	1	2	-	-
	<i>Essential Digital Skills</i>			-	-
	PC24. Operate digital devices and use their features and applications securely and safely	1	1	-	-
	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.	1	1	-	-
	PC26. Display responsible online behaviour while using various social media platforms	1	1	-	-
	PC27. Create a personal email account, send and process received messages as per requirement	1	1	-	-

	PC28. Carry out basic procedures in documents, spreadsheets and presentations using respective and appropriate applications	1	1	-	-
	PC29. Utilize virtual collaboration tools to work effectively	1	1	-	-
	<i>Entrepreneurship</i>			-	-
	PC30. Identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	1	1	-	-
	PC31. Develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	1	1	-	-
	PC32. Identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	1	1	-	-
	<i>Customer Service</i>			-	-
	PC33. Identify different types of customers and ways to communicate with them	1	1	-	-
	PC34. Identify and respond to customer requests and needs in a professional manner	1	-	-	-
	PC35. Use appropriate tools to collect customer feedback	1	-	-	-
	PC36. Follow appropriate hygiene and grooming standards	-	-	-	-
	<i>Getting ready for apprenticeship & Jobs</i>			-	-
	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	1	-	-	-

	PC39. Apply to identified job openings using offline /online methods as per requirement	1	-	-	-
	PC40. Answer questions politely, with clarity and confidence, during recruitment and selection	1	-	-	-
	PC41. Identify apprenticeship opportunities and register for it as per guidelines and requirements	1	-	-	-
	NOS Total	40	50	-	-
	TOTAL	280	350	40	-
	Grand Total	670			

Annexure: Assessment Strategy

Assessment System Overview:

- Batches would be assigned to Assessment Agencies as per the sectors for conducting assessment on CUTM portal or by email.
- Assessment agencies will have to give a confirmation regarding the assigned batches and share the particular Question set to Centurion University.
- Assessment agency deploys the ToA certified Assessor for conducting the assessment from the pool of verified assessor by Centurion University.
- Centurion University will monitor the assessment process and keep the records online or offline (wherever needed)

2. Procedure at Testing Centre:

- Check the Assessment location, date and time
- Maximum batch size will be of 30.
- Assessor will Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Assessor will ensure all the equipment's and required materials are available at the testing center.

3. Assessment Quality Assurance:

- Question bank is created by the Subject Matter Experts (SME) of Assessment Agencies verified by Centurion University.
- Questions are mapped to the specified assessment criteria
- Assessor must be ToA certified & trainer must be ToT Certified
- Surprise visit would be done time to time.

4. Assessment Evidence collection:

- Geo tagged photographs of assessment sessions would be captured by the Assessor.
- Video call verification will be done by Centurion University during assessment and keep the recorded videos.

5. Document storing:

- Hard copies will be stored in the respective files.
- Some of documents will kept in both soft copies and hardcopies.
- All the assessment related data will be kept in CUTM portal.

On the Job:

1. Each module will be assessed separately.
2. The candidate must score 70% in each module to successfully complete the OJT.
3. Acquiring job-specific technical skills related to the industry or field.
4. Learning how to operate and maintain relevant tools, equipment, and machinery.
5. Gaining proficiency in tasks and procedures directly related to the job role.
6. Developing problem-solving skills by addressing real-time challenges encountered on the job.
7. Learning to troubleshoot issues and find practical solutions.
8. Enhancing verbal and written communication skills in a professional context.
9. Learning how to communicate effectively with colleagues, superiors, and clients.
10. Learning to prioritize tasks and manage time efficiently to meet deadlines.
11. Understanding the importance of time management in a work setting.
12. Developing skills related to customer interaction, satisfaction, and conflict resolution.
13. Understanding how to address customer needs and provide excellent service.
14. Understand the working of various tools and equipment.

Annexure: Acronym and Glossary

Acronym

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

Glossary

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