



QUALIFICATION FILE

Service Assistant (Domestic Electronics Products)

✓ 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: 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: caowbsctvesd2024@gmail.com

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Section 1: Basic Details

1.	Qualification Name	Service Assistant (Domestic Electronics Products) STC-ELE/2024/1028													
2.	Sector/s	Electronics & Hardware													
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved) NA	Qualification Name of existing/previous version: NA												
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA													
5.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval)	QG-03-EH-02859-2024-V1-WBSCVT	6. NCrf/NSQF Level: 3												
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other) (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate													
8.	Brief Description of the Qualification	Service Assistant (Domestic Electronics Products) will provide service and customer support for the domestic electronics product during field visits or dispatches. Manage all onsite installation, repair, maintenance and test tasks. Diagnose errors or technical problems and determine proper solutions. Produce timely and detailed service reports.													
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a)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>Grade 10 or equivalent</td> <td>Nil</td> </tr> <tr> <td>2</td> <td>8th grade pass</td> <td>3 year</td> </tr> <tr> <td>3</td> <td>Previous relevant Qualification of NSQF Level 2.5</td> <td>1.5 year</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Grade 10 or equivalent	Nil	2	8th grade pass	3 year	3	Previous relevant Qualification of NSQF Level 2.5	1.5 year
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)													
1	Grade 10 or equivalent	Nil													
2	8th grade pass	3 year													
3	Previous relevant Qualification of NSQF Level 2.5	1.5 year													

		b. Age: 18 Years																							
10	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	13			11. Common Cost Norm Category (I/II/III) (wherever applicable): NA																				
12	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																							
13	Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	☒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>150</td> <td>180</td> <td>60</td> <td></td> <td>390</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> (Refer Blended Learning Annexure for details)						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	150	180	60		390	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																				
Classroom (offline)	150	180	60		390																				
Online																									
14	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7419.0500.2523.0200.7421.1301.7411.0102.7422.1202.7421.0601																							
15	Progression path after attaining the qualification (Please show Professional and Academic progression)	Horizontal Progression: - Junior Mechanic (Electrical/ Electronics/ Instrumentation), L-3 - Mechanic Auto Electrical & Electronics, L-3 - Wireman Control Panel Electronics, L-3 Vertical Progression: - Electronics Mechanic, L-4																							
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 Qualifications:																							
18	Is the Job Role Amenable to Persons with	☐ Yes ☒ No																							

	Disability	If “Yes”, specify applicable type of Disability:	
19	How Participation of Women will be Encouraged	Women as part of self-help groups take part in this training and then go for self-employment as well as wage employment	
20	Are Greening/ Environment Sustainability Aspects Covered <i>(Specify the NOS/Module which covers it)</i>	☐ Yes ☐ No Module1: Occupational Safety hazard at workplace ELE/1028/OC1 Apply Safe Working Practices	
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: Subrato Sarkar , Chief Administrative Officer Email: caowbsctvesd2024@gmail.com Contact No.: 033-2340-3717 Website: sctvesd.wb.gov.in	
23	Final Approval Date by NSQC: 25/07/2024	24. Validity Duration: 3 years	25. Next Review Date 24/07/2027

Section 2: Module Summary

NOS/s of Qualifications
(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version <i>(if applicable)</i>	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 (%) <i>(if applicable)</i>
1.	Occupational Safety hazard at workplace	ELE/1028/OC1	Core	3	1	10	20			30	10	70			80	8%

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)
2.	Electrical/electronic measurement of single range meter	ELE/1028/OC2	Core	3	1	10	20			30	10	70			80	8%
3.	Soldering & de-soldering	ELE/1028/OC3	Core	3	1	10	20			30	20	80			100	10%
4.	Installation of computer system	ELE/1028/OC4	Core	3	1	10	20			30	20	70			90	9%
5.	Troubleshoot and repair LCD/LED TV	ELE/1028/OC5	Core	3	2	20	40			60	30	140			170	17%
6.	Installation of DTH system	ELE/1028/OC6	Core	3	1	10	20			30	20	70			90	9%
7.	Repair of the microwave oven and washing machine	ELE/1028/OC7	Core	3	1	10	20			30	20	70			90	9%
8.	Installation of CCTV system	ELE/1028/OC8	Core	3	1	10	20			30	20	80			100	10%
9.	Industry Exposure	ELE/1028/OC9	Core	3	2	0	0	60		60		0	150		150	15%
10.	Employability Skills- 60 hrs.	DGT/VSQ/N0102	Non-Core	3	2	60	0			60	50				50	5%
Duration (in Hours) / Total Marks						150	180	60		390	200	650	150		1000	

Elective NOS/s: NA

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.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s: NA

S. No	NOS/Module Name	NOS/Module	Core/	NCrF/NSQF	Credits	Training Duration (Hours)					Assessment Marks					
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		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.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage
Please specify **any one** of the following:

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

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

Section 3: Training Related

1.	Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	CTS/ATS - Electronics mechanic/Mechanic consumer electronics trade with 5 years experience OR Diploma - Electronics/Computers/ Electrical/Electrical and Electronics with 3 years experience OR B. Tech/BE - Electronics/ Computer Science / IT/ Electrical/Electrical and Electronics with 2 years experience AND Certified for Job Role: “Service Assistant (Domestic Electronics Products)” mapped to QP: “ STC-ELE/2024/1028”.Minimum accepted score is 80%. AND Certified for the Job Role: “Trainer(VET & skills)”, mapped to the Qualification Pack: “MEP/Q2601, v2.0”. Minimum accepted score is 80%.
2.	Master Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	CTS/ATS - Electronics mechanic/Mechanic consumer electronics trade with 5 years experience OR Diploma - Electronics/Computers/ Electrical/Electrical and Electronics with 3 years experience OR B. Tech/BE - Electronics/ Computer Science / IT/ Electrical/Electrical and Electronics with 2 years experience AND Certified for Job Role: “Service Assistant (Domestic Electronics Products)” mapped to QP: STC-

		ELE/2024/1028".Minimum accepted score is 80%. AND Certified for the Job Role: "Trainer(VET & skills)", mapped to the Qualification Pack: "MEP/Q2601, v2.0". Minimum accepted score is 80%. AND Certified on any domain skill of NSQF Level 5 with experience in training activities in similar field.
3.	Tools and Equipment Required for Training	√ ☐ Yes ☐ No (If "Yes", details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NO

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	CTS/ATS - Electronics mechanic/Mechanic consumer electronics trade with 5 years experience OR Diploma - Electronics/Computers/ Electrical/Electrical and Electronics with 3 years experience OR B. Tech/BE - Electronics/ Computer Science / IT/ Electrical/Electrical and Electronics with 2 years experience AND Certified for Job Role: "Service Assistant (Domestic Electronics Products)" mapped to QP: "STC-ELE/2024/1028". Minimum accepted score is 80%. AND Certified for the Job Role: "Assessor (VET & skills)", mapped to the Qualification Pack: "MEP/Q2701,v2.0". Minimum accepted score is 80%. AND Assessor will be required to be empaneled with WBSCTVESD upon successfully clearing TOA in relevant job role to be conducted from time to time by WBSCTVESD.
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	CTS/ATS - Electronics mechanic/Mechanic consumer electronics trade with 5 years experience OR Diploma - Electronics/Computers/ Electrical/Electrical and Electronics with 3 years experience OR B. Tech/BE - Electronics/ Computer Science / IT/ Electrical/Electrical and Electronics with 2 years experience
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	CTS/ATS - Electronics mechanic/Mechanic consumer electronics trade with 5 years experience OR Diploma - Electronics/Computers/ Electrical/Electrical and Electronics with 3 years experience OR B. Tech/BE - Electronics/ Computer Science / IT/ Electrical/Electrical and Electronics with 2 years experience

4.	Assessment Mode (<i>Specify the assessment mode</i>)	Offline
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): 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): NO
4.	Number of Industry validation provided: 5
5.	Estimated nos. of persons to be trained and employed: 2600 per year
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 (Mandatory)	Annexure 1
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Annexure 2
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Annexure 6
4.	Annexure: Assessment Strategy (Mandatory)	Annexure 7
5.	Annexure: Blended Learning (Mandatory, in case selected Mode of delivery is "Blended Learning")	NA
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	NA
7.	Annexure: Acronym and Glossary (Optional)	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

Annexure1: 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	Required well developed skill - Select and perform electrical/electronic measurement of single range meters and record the data. - Plan and execute soldering & de-soldering of various electrical components used in domestic appliances and assemble and test a AM/FM receiver and evaluate performance - Install, configure, interconnect given computer systems (s) and demonstrate its I/O devices Clear choice of procedures in familiar context - Install a DTH system by proper selection of site, assembling of different parts/ accessories and troubleshoot the system. - Dismantle, identify the parts of microwave oven and washing machine for the testing and repair. Job holder will be able to install or repair basic domestic electronics products while maintaining occupational health & safety parameters.	The learner requires to demonstrate well developed skill for example in learning outcomes like “Identify, operate various controls, troubleshoot and replace modules of the LCD/LED TV and its remote”. Job holder will understand and comply with safety practices while undertaking works in domestic electronics products The nature of work involved is repetitive and routine. The learner requires applying clear choice of procedures in familiar context for example Insall a CCTV system and configuring the system for surveillance function.	3
Professional and Technical Skills/ Expertise/ Professional Knowledge	Possesses knowledge involving a defined range of standard procedures employed in routine contexts Job holder will be able to	The learner requires to demonstrate the facts, principles, process concepts in the electronics field of work or study to test and repair various electronics equipment or to measure different parameters choosing and using he right electronics equipment	3

	• Understand fundamental electrical and electronics theories, signs & symbols, circuit diagram and connections. • Use different tools & equipments • Understand basic principles for operation of various simple domestic electronics products. Understand working of different parts of various simple domestic electronics products	Uses limited discretion and judgement over a range of known responses to familiar problems. Job holder will understand the basic concepts, facts, principles and processes in relation with simple domestic electronics products.	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	A range of skills and technical capabilities of carrying out a choice of processes and procedures within the range of familiar contexts. The user/individual will know and understand how to: • assess and decide whether safety tools/ gears (if any) are installed properly, check condition of materials. • decide defective parts of an electronics product. • decide ways to repair engage in repairing of the defective parts	The learning outcomes indicated required cognitive and practical skills to accomplish tasks that involve Test and service different batteries used in electronic application and record the data to estimate repair cost. Plan and execute soldering & de-soldering of various electrical components used in domestic appliance and assemble and test a AM/FM receiver and evaluate performance. It requires planning as per conditions available or detecting fault and decide course of action for evaluate the performance including selecting applying appropriate tools, materials and information	3
Broad Learning Outcomes/Core Skill	The job holder will be able to • read at least two languages, preferably in the local language of the site and basic English • read and interpret safety sign boards, signage, tags etc. provided at workplace • 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	Working as a member of team/with a team. Good skills in written and oral communication with some clarify, basic knowledge of language to support such communication. Intermediate literacy and numeracy skills Skills for workshop calculations and basic of arithmetic calculations Persons have limited communication skill, arithmetic skills, basic computer skills to meet up personal banking, basic understanding of social and natural environment.	3

	Understand principles of time management and entrepreneurship		
Responsibility	The technician must be able to carry out job/work/tasks in a familiar predictable , routine, situation of clear choice Focus on range of application of standard procedures or operations in production/services. Understand all safety & general hygiene norms and environmental aspects, together with risks. The job holder will work under the close supervision of supervisor and he will be responsible for - Understanding safety compliance while engaging in servicing of electronics products. - Independently and also with the help of supervisor carry out repair work of a defective domestic electronics product.	Job holder is required to carry out functions such as soldering, desoldering, disassemble and assemble a product and repair the defective one. In these activities job holder is doing the tasks independently, with supervision in certain risky jobs.	3

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

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Quantity for specified Batch size
1	Measuring Tape 150 cm	30 nos.
2	Scissors	30 nos
3	Needles	As required
4	Racks	5 nos
5	Packing Machine	1 no
6	Seam Ripper	30 nos

7	Thimble	30 nos
8	Thread cutter	30 nos
9	Scale plastic 12"	30 nos
10	Compass	30 nos
11	Fur cloth	30 nos
12	Stuffing material	As required
13	Eyes, Ribbon	As required
14	Cotton Fabric	As required
15	Pattern Table	4 nos
16	Revolving Chairs without arms	3 0 nos
17	Faculty Table & Chair set	1 no
18	Computer set with UPS & multimedia projector	1 no
19	White Magnetic Board with Felt board & accessories	1 no
20	Display Board	2 nos
21	Storage Almirah	1 no
22	Book Shelf	1 no
23	Sewing machines	10 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

Annexure3: Industry Validations Summary

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

Sl. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.	Haier service centre	Avijit Das	Field Manager	Basirhat,North 24 pgs.	8597024090	bandana.haier2017@gmail.com	
2.	Shyam Electronics	Anup Mondal	D.O.	kholapota	8967977375	Anupmondal214@gmail.com	
3.	Das Electronics	Arindam Das	Owner	1/35, Netaji Nagar Kol-92	9830116885	das.arindam.bunty@gmail.com	
4	New Symphony Electronics	Amaresh Roy	Proprietor	Basirhat,North 24 pgs.	7001434655	ramareesh48@gmail.com	
5.	Eureka Electronics	Shantanu polley	Technician	Kanupat ,Howrah Pin - 711412	7686087149	Shantanu12@gmail.com	
6.	Raja Electric & Electronics	Raja Mukherjee	Proprietor	AT- Barda. Dist- Paschim Midnapore	9153425602		
7.	Chakraborty Electronics	Bijoy chakraborty	Owner	Vill-Keoradanga, Dist-South 24 parganas	9038713830		
8.	Bhowmick Electronics	Dhiman bhowmick	Proprietor	Bharatpur, Hemtabad, Uttar dinajpur, 733156, WB	9641351673	bhowmickelec@gmail.com	
9.	Techgen India	Hitabrata dhar choudhary	Proprietor	Sukhada Bhawan, Bijali park, Kolkata-700129	6290115299	info@techgenindia.com	
10.	Meditech India	Pradip paul	CEO	51/64, dum dum road, Kolkata-700074	9433919521	Meditechindia51@gmail.com	
11.	Lokenath Enterprise	Samyadeep bagchi	Proprietor	Ashram para,96 Nazrul-sarani, siliguri, Darjeeling, wb	7550965943	Officesolution1999@gmail.com	
12.	Dutta Computers	Manojit Datta	Proprietor	Vill-Netaji Pally, p.o.-islampur, P.s.-islampur, uttardinajpur, west Bengal, 733202	9614285213	Data.manojit@yahoo.in	
13.	Desum technology Pvt. LTD	Sudip karmakar	CBO	3 rd floor A6, 253, Baghajatin Place, Kol-	9836151222	Sudip.karmakar4@gmail.com	

				700086			
14.	DM Enterprise	Subhankar Manna	Owner	Horirdokan Gabberia, Pin-743503	9073096189		
15.	M.K. electrical	Asim rana	Proprietor	Gopiballavpur, P.O. + P.s-Gopiballavpur, Dist-Jhargram	8001258121	Asimr1739@gmail.com	

Annexure4: 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
2023-24	1500	100% self-employed	682	100% self employed	----	----

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
1.0	2019-20	3224	2531	2531	100% (self-employed)	725	528	528	100% (self-employed)	----	-----	----	----
1.0	2021-22	1811	1326	1326	100% (self-employed)	442	314	314	100% (self-employed)	----	-----	----	----
1.0	2022-23	2825	1526	1526	100% (self-employed)	762	398	398	100% (self-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:

☐ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☒ Qualification Handbook ☐ Any Other:

Languages in which Content is available: English

Annexure5: 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

Annexure6: 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
Occupational Safety hazard at workplace ELE/1028/OC1	Apply Safe Working Practices	10	70		
	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 use the same as per related working environment. (1.5) Demonstrate basic first aid & CPR and use them under different circumstances.				
	Total Marks	10	70		
Electrical/electronic measurement of single range meter ELE/1028/OC2	Select and perform electrical/ electronic measurement of single range meters and record the data.	10	70		
	(2.1) Plan work in compliance with standard safety norms. (2.2) Identify the type of electronic instruments. (2.3) Determine the measurement errors while measuring resistance (2.4) Extend the range of MC voltmeter and ammeter. (2.5) Measure the value of resistance, voltage and current using digital multimeter.				
	Total Marks	10	70		
Soldering & de-soldering ELE/1028/OC3	Plan and execute soldering & de-soldering of various electrical components used in domestic appliances and assemble and test a AM/FM receiver and evaluate performance.	20	80		
	(3.1) Plan work in compliance with standard safety norms. (3.2) Identify the primary and secondary transformer winding's and test the polarity. (3.3) Measure the primary and secondary voltage of different transformers. (3.4) Solder the given components Identify and test. (3.5) Practice soldering and de-soldering for a given components and circuits. (3.6) Avoid waste, ascertain unused materials and components for disposal, store these in an environmentally appropriate manner and prepare for disposal (3.7) Plan and select tools to assemble the receiver. (3.8) Test the various components of AM and FM on the trainer kit. (3.9) Troubleshoot and replace the faulty components. (3.10) Check the functionality of AM/ FM receiver.				
	Total Marks	20	80		
Installation of computer system ELE/1028/OC4	Install, configure, interconnect given computer system(s) and demonstrate its I/O devices.	20	70		
	(4.1) Plan, work in compliance with standard safety norms. (4.2) Select hardware and software component. (4.3) Install and configure operating systems and applications				
	Total Marks	20	70		

Troubleshoot and repair LCD/LED TV ELE/1028/OC5	Identify, operate various controls, troubleshoot and replace modules of the LCD/LED TV and its remote.	30	140		
	(5.1) Ascertain and select tools and materials for the job and make this available for use in a timely manner. (5.2) Identify the different modules of TV and their functions. (5.3) Trace and rectify the faults of a various remote controls. (5.4) Measured and checked various connectors and connect the cable operator's external decoder (set top box) to the TV. (5.5) Troubleshoot and rectify the fault by replacing the module and test for its functionality. (5.6) Demonstrate Cells & Batteries Construction of Remote				
	Total Marks	30	140		
Installation of DTH system ELE/1028/OC6	Install a DTH system by proper selection of site, assembling of different parts/ accessories and troubleshoot the system.	20	70		
	(6.1) Plan & setup the workplace different tools and equipment used in DTH installation procedure & cabling procedure and take due care using the tools. (6.2) Monitor form of a surface areas a DTH system, select the site accordance with technical requirements. (6.3) Set up the connection to STB by selecting the suitable port and cable. (6.4) Identify the faults in DTH system & rectify.				
	Total Marks	20	70		
Repair of the microwave oven and washing machine ELE/1028/OC7	Dismantle, identify the parts of microwave oven and washing machine for the testing and repair.	20	70		
	(7.1) Identify the different parts of microwave oven. (7.2) Identify, use the controls on touch keypad of Microwave oven (7.3) Identify the faults, dismantle and rectify the faults. (7.4) Identify the faults in the given washing machine. (7.5) Dismantle and identify of various parts, sensors, wire, trace of various controls. (7.6)Rectify the faults by repair/ replacement of parts.				
	Total Marks	20	70		
Installation of CCTV system ELE/1028/OC8	Install a CCTV system and configure the system for surveillance function	20	80		
	(8.1) Identify & use different tools and equipment used for installation of CCTV, handle the tools with due care and safety. (8.2) Identify the different CCTV components, Trace or follow the CCTV setup for any				

	domestic installation. (8.3) Identify the strategic locations for the installation of cameras. (8.4) Plan and setup the procedure for switching the cameras to have different views. (8.5) Identify the connectors and sockets used on DVRs, connect CCTV Cameras to DVR.				
	Total Marks	20	80		
Industry Exposure ELE/1028/OC9	Work in real job situation with special emphasis on basic safety and hazards in this domain.	0	0	150	
	(9.1) 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. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor for 150 Hours.)				
	Total Marks				
Employability Skills DGT/VSQ/N0102	Employability Skill-60 Hrs	50	0		
	(10.1) As per NCVET guided course module				
Grand Total		200	650	150	

Annexure7: 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 Industry Exposure
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

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