



QUALIFICATION FILE

Assistant Technician of Creative & Dynamic Lighting System

✓ 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 for Vocational Training (WBSCVT)

Submitting Body Name> West Bengal State Council for Vocational Training (WBSCVT)

Karigari Bhavan (4th Floor), Plot-B/7, Action Area-III, New Town, Kolkata-700160

Submitting Body Contact Details: Name : Mr. Subrota Sarkar

Position in the organization: Secretary, West Bengal State Council for Vocational Training (WBSCVT)

Address if different from above: Same as above

Tel number(s): 033-2324 7073

Mob No:9748085241

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Table of Contents

Section 1: Basic Details 3

Section 2: Module Summary 6

 NOS/s of Qualifications 6

 Mandatory NOS/s:..... 6

 Elective NOS/s: NA..... 7

 Optional NOS/s: NA..... 7

 Assessment - Minimum Qualifying Percentage..... 8

Section 3: Training Related 8

Section 4: Assessment Related 8

Section 5: Evidence of the need for the Qualification..... 9

Section 6: Annexure & Supporting Documents Check List 9

 Annexure1: Evidence of Level 10

 Annexure 2: Tools and Equipment (Lab Set-Up) 13

 Annexure 3: Industry Validations Summary [199](#)

 Annexure 4: Training & Employment Details 22

 Annexure 5: Blended Learning..... 23

 Annexure 6: Detailed Assessment Criteria 24

 Annexure 7: Assessment Strategy 26

 Annexure 8: Acronym and Glossary 27

Section 1: Basic Details

1. Qualification Name	Assistant Technician of Creative & Dynamic Lighting System		
2. Sector/s	Electronics & Hardware		
3. Type of Qualification: <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> 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>			
5. National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-03-EH-03898-2025-V1-WBSC	6. NCrF/NSQF Level: 3	
7. Award (Certificate/Diploma/Advance Diploma/ Any Other <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate		
8. Brief Description of the Qualification	Assistant Technician of Creative & Dynamic Lighting System' is designed to equip learners with foundational knowledge and practical skills in the setup, programming, and maintenance of creative and dynamic lighting systems used in events, entertainment, architectural installations, and theatrical productions. Participants will gain hands-on experience with lighting control software and hardware, understand DMX and networked lighting protocols, and learn techniques for designing and operating synchronized lighting shows. The qualification prepares individuals for entry-level roles supporting lighting assistant technicians, and production teams in a variety of creative industries.		

<p>9. Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</p>	<p>a) Entry Qualification & Relevant Experience:</p> <table border="1" data-bbox="707 204 1749 544"> <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 10th pass/ Equivalent</td> <td>Nil</td> </tr> <tr> <td>2.</td> <td>Grade 8th pass</td> <td>3 years in Electronics & HW sector and Power sector</td> </tr> <tr> <td>3.</td> <td>NSQF Level 2.5</td> <td>1.5 years, Electronics & HW and Power sector</td> </tr> <tr> <td>4</td> <td>NSQF Level 2</td> <td>3 years, Electronics & HW and Power sector</td> </tr> </tbody> </table> <p>b) Age: 18 Years</p>						S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Grade 10 th pass/ Equivalent	Nil	2.	Grade 8 th pass	3 years in Electronics & HW sector and Power sector	3.	NSQF Level 2.5	1.5 years, Electronics & HW and Power sector	4	NSQF Level 2	3 years, Electronics & HW and Power sector			
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3.	NSQF Level 2.5	1.5 years, Electronics & HW and Power sector																						
4	NSQF Level 2	3 years, Electronics & HW and Power sector																						
<p>10 Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))</p>	<p>18</p>	<p>11. Common Cost Norm Category (I/II/III) (wherever applicable): II</p>																						
<p>12 Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)</p>	<p>NA</p>																							
<p>13 Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</p>	<p><input checked="" type="checkbox"/>Offline <input type="checkbox"/>Online <input type="checkbox"/>Blended</p> <table border="1" data-bbox="707 903 1805 1129"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>INDUSTRY EXPOSURE/OJT Mandatory (Hours)</th> <th>INDUSTRY EXPOSURE/OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>125</td> <td>325</td> <td>90</td> <td></td> <td>540</td> </tr> <tr> <td>Total</td> <td>125</td> <td>325</td> <td>90</td> <td></td> <td>540</td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p>						Training Delivery Modes	Theory (Hours)	Practical (Hours)	INDUSTRY EXPOSURE/OJT Mandatory (Hours)	INDUSTRY EXPOSURE/OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	125	325	90		540	Total	125	325	90		540
Training Delivery Modes	Theory (Hours)	Practical (Hours)	INDUSTRY EXPOSURE/OJT Mandatory (Hours)	INDUSTRY EXPOSURE/OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	125	325	90		540																			
Total	125	325	90		540																			
<p>14 Aligned to NCO/ISCO Code/s (if no code is available mention the same)</p>	<p>NCO-2015/ 3114.9900</p>																							
<p>15 Progression path after attaining the qualification (Please show Professional and Academic progression)</p>	<p>Horizontal Progression: NA Vertical Progression: Creative & Dynamic Lighting System Technician (Level - 4)</p>																							
<p>16 Other Indian languages in which the Qualification & Model Curriculum are being submitted</p>	<p>NA</p>																							

17	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:	
18	Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 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>)	<input type="checkbox"/> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Module1: Occupational Safety hazard	
21	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 09th May'2025	24. Validity Duration: 3 years	25. Next Review Date Every 3 years (from the date of NSQC approval) 08th May'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.	INDUS TRY EXPO SURE/ OJT-Man.	INDUS TRY EXPO SURE/ OJT-Rec.	Total	Th.	Pr.	Proj	Viva	Total	Weightage (%) (if applicable)
1.	Apply Electrical Safety and Hazard Management equipments	EHW/N0101	Core	3	1	10	20			30	10	40			50	8.33%
2.	Describe the Electrical Principles and Wiring System Testing	EHW/N0102	Core	3	2	10	50			60	10	30			40	6.67%
3.	Explain the Basic Electronics and Digital Electronics Troubleshooting	EHW/N0103	Core	3	1	10	20			30	10	40			50	8.33%
4.	Interpret the Engineering Drawing and Lighting Design	EHW/N0104	Core	3	3	20	70			90	15	60			75	12.5%
5.	Plan and execute the decorative Lighting Installation and Maintenance.	EHW/N0105	Core	3	3	20	70			90	20	60			80	13.33 %
6.	Demonstrate Dynamic Lighting system and control systems.	EHW/N0106	Core	3	3	20	70			90	15	60			75	12.5%
7.	Execute the decorative Lighting	EHW/N0107	Core	3	1	5	25			30	20	60			80	13.33 %

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.	INDUS TRY EXPO SURE/ OJT-Man.	INDUS TRY EXPO SURE/ OJT-Rec.	Total	Th.	Pr.	Proj	Viva	Total	Weightage (%) <i>(if applicable)</i>
	Applications															
8.	Employability Skills- 30 hrs.	DGT/N0101	Non-Core	3	1	30	0			30	50	00			50	8.3%
9.	Work in real job situation with emphasis on basic safety and hazards.	EHW/N0108	Core	3	3	0	0	90		90	00	100			100	16.71 %
Duration (in Hours) / Total Marks						125	325	90		540	150	450			600	100%

Elective NOS/s: NA

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.	INDUSTRY EXPOSURE/OJT-Man.	INDUSTRY EXPOSURE/OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) <i>(if applicable)</i>
1.	NA															
2.	NA															
Duration (in Hours) / Total Marks																

Optional NOS/s: NA

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.	INDUSTRY EXPOSURE/ OJT-Man.	INDUSTRY EXPOSURE/ OJT-Rec.	Total	Th.	Pr.	Proj	Viva	Total	Weightage (%) <i>(if applicable)</i>
1.	NA															
2.	NA															
3.	NA															
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% & Pr. 70% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

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

Section 3: Training Related

1.	Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<ol style="list-style-type: none"> BE/B tech Electrical/Electronics and Telecommunication with 1 year working experience. Diploma In Engineering Electrical/ Electronics/ Electronics and Telecommunication with 2 years working experience. NTC/NAC Electrician/ Electronics mechanics with 3 years experience.
2.	Master Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	<ol style="list-style-type: none"> BE/B. tech Electrical/Electronics and Telecommunication with 2 years working experience. Diploma In Engineering Electrical/ Electronics/ Electronics and Telecommunication with 3 years working experience. NTC/NAC Electrician/ Electronics mechanics with 4 years experience.
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If “Yes”, details to be provided in Annexure)
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NO

Section 4: Assessment Related

1.	Assessor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	<ol style="list-style-type: none"> BE/B. tech Electrical/Electronics and Telecommunication with 2 years working experience. Diploma In Engineering Electrical/ Electronics/ Electronics and Telecommunication with 3 years working experience. NTC/NAC Electrician/ Electronics mechanics with 4 years experience. <p>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 WBSCVT.</p>
2.	Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	10 th grade pass with 5 years experience in electrical / electronics industries and 3 years of teaching experience .

3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	10 th grade pass with 5 years experience in electrical / electronics industries and 3 years of teaching experience .
4.	Assessment Mode (Specify the assessment mode)	Offline
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> No (details to be provided in Annexure-if it is different for Assessment)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): 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: 41
5.	Estimated nos. of persons to be trained and employed: 60 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

Annexure 1: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	<p>Job holder will be able to carry out assembly, installation, repair and maintenance of creative dynamic lighting systems which may be required limited range of activities routine and predictable</p> <ul style="list-style-type: none"> Recognize tools, equipment and materials used in Electrical and electronics works Identify the Common Electrical Accessories used in electrical wiring, & their Specifications like switches, holders, relay's, contactors etc. Execute the electrical material and components, for lighting arrangement. Evaluate the technique and efficiency of electrical wiring. Estimate and Measure the wires, cables, resistance and input/output voltage of transformer, accurately for electrical circuit. Execute the earthing system in the electrical circuit. Verify the prepared wiring as per design and specification. Identify and rectify common errors of electrical circuit in practice. Apply knowledge in assembly, repair, and maintenance of creative and dynamic lighting systems. Create simple lighting designs for Stage performances and shows, Weddings, parties, and 	<p>Job holder will understand and comply with safety practices while undertaking work as assistant technician of Creative & Dynamic Lighting. The nature of work involved is repetitive and routine.</p> <p>The learner is expected to</p> <ul style="list-style-type: none"> Identify tools, equipment and consumables correctly Identify various raw materials used in electrical wiring such as wires, switches, holders, conduits etc. Planning conduit laying and cable laying as per scope. Practice electrical wiring, earthing connection of switches and lamps MCB, RCCB etc.. Explore various type of electrical circuit like series circuit, parallel circuit different wiring patterns. Practice size estimation for domestic wiring Operate the different types of lighting effect and solve minor issues. Practice on skinning, jointing, of wires and cable. Execute the stage lights and spotlights for performers 	3

	<p>public events.</p> <ul style="list-style-type: none"> Identify the different types of advance decorative light. Identify the Components of a Dynamic Lighting System such as Smart LED Bulbs, Controllers / Remotes Sensors motion, light 	<ul style="list-style-type: none"> Connect and set up simple lighting systems using basic hardware (like smart bulbs or DMX controllers) Create Changing light color and brightness using software 	
<p>Professional and Technical Skills/ Expertise/ Professional Knowledge</p>	<p>Possesses knowledge involving a defined range of standard procedures employed in routing contexts. Basic facts, process and principle applied in trade of employment.</p> <ul style="list-style-type: none"> Understands the basic concept of timely delivery and quality. Safety norms applicable in electrical works and use of specific PPEs. Safely handling and maintenance of tools and equipment Key electrical material identification. Techniques of changing light effect in various space and events. Connection of DMX controllers to the light. Programming Techniques of Lighting Control Software. Various lighting patterns creation on stage. Procedure of testing electronics components.. 	<p>Job holder will possess the basic concepts, facts, principles and processes in relation with assistant technician of Creative & Dynamic Lighting System.</p> <p>He/ She has brief & fundamental idea about Tools equipment used for assistant technician of Creative & Dynamic Lighting System. Required techniques of wiring & earthing, techniques of changing lighting effect in various space. Connection of DMX controllers to the light. Programming Techniques of Lighting Control Software.</p> <p>Design lighting that makes shops look attractive and products stand out, Control brightness to create the right mood or ambiance. Diagnose faulty Components of light controller / decorative light by using tools and testing Devices. Replace or repair faulty lighting parts. Create simple lighting designs for Stage performances and shows building facades and interior spaces , weddings, parties, and public events.</p>	3
<p>Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill</p>	<p>A range of skills and technical capabilities of carrying out a choice of processes and procedures within the range of familiar contexts. The learner will have the required skills for identification of the problem and issues within the range of familiar contexts and generate possible</p>	<p>The job holder will demonstrate use of various tools and raw materials, machines. He/ she will be also able to demonstrate proper practices electrical wiring work, different advance light connection, change in lighting effect using software. The range of application of practical</p>	3

	<p>solution</p> <ul style="list-style-type: none"> • Use, maintain and store tools, equipment and materials efficiently. • Manage inventory, prevent resource wastage, and maintain proper documentation. • Process to create lighting effect any building or events or space. • Plan and execute the lighting wiring system. • Measure current , voltage in different circuit. • Operate the DMX lighting controller. • Set the parameter of DMX controller. • Properly setting and connection of smart light. • Inspect the total wiring and emitted light as per requirements. 	<p>skill is narrow and repetitive.</p> <p>Skills to identify the relevant tools and materials in given context.</p> <p>Possesses operational knowledge and understanding of the work/ job.</p> <p>Skill to deliver job/work with reasonable precision.</p>	
<p>Broad Learning Outcomes/Core Skill</p>	<p>Working as a member of a team/within a team. Display personal motivation. Positive attitude & passion for work.</p> <p>Good skills in written and oral communication with some clarify, basic knowledge of language to support such communication.</p> <p>The job holder will be able to</p> <ul style="list-style-type: none"> • 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 work place • 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 	<p>The job holder will be able to communicate clearly, both in writing and orally, with co-workers, supervisors and customers.</p> <p>Intermediate literacy and numeracy skills He/ She will be able to use basic arithmetic calculations for his work and use basic banking services both on professional and personal level.</p>	<p>3</p>

Responsibility	The job holder will work under the close supervision of supervisor and he will be responsible for work related to assistant technician of Creative & Dynamic Lighting.	Job holder takes responsibility for delivery and quality of won work and tangible output. He/ She is required to carry out functions independently and under supervision in certain cases.	3
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Annexure 2: Tools and Equipment (Lab Set-Up)
List of Tools and Equipment
Batch Size: 30

Sl. No.	NAME OF THE ITEMS	QUANTITY
1	Connecting screw driver 100 mm	10 Nos.
2	Neon Tester	10 Nos.
3	Screw driver set (Set of 5)	10 Sets
4	Insulated combination Pliers 150 mm	6 Nos.
5	Insulated side cutting pliers 150 mm	10 Nos.
6	Insulated Long Nose Pliers 150 mm	6 Nos.
7	Soldering Iron 25 Watts/ 240 Volts.	10 Nos.
8	Electrician Knife	10 Nos.
9	Tweezers (Insulated) 100 mm	10 Nos.
10	Digital Multimeter (3½ Digits)	10 Nos.
11	Soldering Iron Changeable bits type 10 Watts/ 240 Volts	6 Nos.

12	De-soldering Pump	10 Nos.
13	Steel Rule 300 mm	6 Nos.
14	Steel measuring tape – 3meter	6 Nos.
15	Tools maker vice 100 mm (Clamp)	2 Nos.
16	Tools maker vice 50 mm (Clamp)	2 Nos.
17	Crimping Tools (Pliers)	6 Nos.
18	Magneto Spanner set	4 Nos.
19	File flat 200 mm Bastard	4 Nos.
20	File flat 200 mm Second cut	4 Nos.
21	File flat 200 mm Smooth	4 Nos.
22	100 mm Flat pliers	6 Nos.
23	100 Round Nose Pliers	6 Nos.
24	Scriber straight 150 mm	4 Nos.
25	Hammer Ball pen 0.5 kg	6 Nos.
26	Allen key set (Set of 9)	2 Nos.
27	Tubular Box Spanner set (Set of 6)	2 Sets
28	Magnifying Lens 75 mm	4 Nos.
29	Continuity Tester	10 Nos.
30	Hacksaw Frame 300 mm (Fixed)	10 Nos.
31	Junior Saw with blade 6"/8"	10 Nos.
32	Hand Saw 450 mm	10 Nos.
33	Scissor 200 mm	4 Nos.

34	Cold Chisel 20 mm	4 Nos.
35	Electric Hand Drill Machine (Light weight)	4 Nos.
36	Bench Vice 15 mm Jaw	4 Nos.
37	First Aid Kit	2 Nos.
38	Fire Extinguisher	4 Nos.
39	Precision set of screw drivers – T5, T6, T7	4 Sets
40	Tweezers - Bend Tip	6 Nos.

LIST OF EQUIPMENT:

Sl. No.	NAME OF THE ITEMS	QUANTITY
1	Dual DC Regulated Power Supply, 30-0-30 V, 2 Amps.	4 Nos.
2	Dc Regulated Power Supply 0 – 24 Volts, 1 Amp.	4 Nos.
3	Dual Trace CRO 60 MHZ with component test facility	2 Nos.
4	Digital Multimeter	2 Nos.
5	Dimmer Start 3 Amps.	2 Nos.
6	Digital IC Tester	1 No.
7	Digital and Analog Bread Board Trainer	6 Nos.
8	Rheostat of Various value and ratings	2 Sets
9	POWER Electronics Trainer with at least 6 Nos. Of on board applications	4 Nos.
10	Different types of electronic and electrical cables, connectors, sockets and terminations	As required
11	Different types of analog electronics components, digital ICs, Power electronics components, general purpose PCBs, bread board, MCB and ELCB	As required
12	Soldering & De-soldering station with necessary accessories	4 Nos.
13	SDM Soldering and De-soldering station with necessary accessories	2 Nos.
14	AC motor ¼ HP	2 Nos.

15	Microcontroller Trainer kit (8051) along with programming software (Assembly level programming)	4 Nos.
16	Application kits for Microcontrollers – 6 different applications	1 Set
17	SMPS of different make	4 Nos.
18	Incandescent lamp, Fluorescent Light, LED, Halogen Light, Neon Light	1 No,
19	LED lighting System	4 Sets
20	RGB LED Stage Light	2Sets
21	LED Strip Lights	1 No.
22	Smart LED Bulbs	1 No.
23	Fairy/String Lights	1 No.
24	Fiber Optic Lights	1 No.
25	Laser Lights,	1 No.
26	Projection Lights	1 No.
27	DMX Controlled Stage Lights	1 No.
28	DMX Controller	1 No.
29	Spot Light	1 No.

WORKSHOP FURNITURE:

Sl. No.	Name of the items	Quantity
1	Instructor`s Table	1 No.
2	Instructor`s Chair	2 Nos.
3	Metal Rack – 100cm X 150cm X 45cm	6 Nos.
4	Lockers with 12 drawers of standard size	3 Nos.
5	Steel Alimirah 2.5 m X 1.20 m X 0.5 m	3 Nos.
6	White Board 4'-00" X 8'-00"	1 No.
7	Wooden Work Bench 3' X 3½' X 6'	4 Nos.
8	Wooden Stool of 2½ Height	20 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. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.	SIKHA ENTERPRISE	JAYANTA DAS	PROPRITER	HOOGHLY, WB	9330040148	sikhaenterprise.chandannagar@yahoo.com	
2.	SASANKA ELECTRIC	SASANKHA SEKHAR PAUL	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9433510429	nabamita.mondal51@gmail.com	
3.	TARAK NATH ELECTRIC	TARASHANKAR MUKHERJEE	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9831821595	tarashankarm83@gmail.com	
4.	BIJLI ELECTRIC	PANKAJ MALI	PROPRITER	MANKUNDU, HOOGHLY, WB	8961342066	pankaj.7383@gmail.com	
5.	DEY ELECTRICAL & ELCTRONICS	ASIM KUMAR DEY	PROPRITER	KUMARGRAM, DIGHIR PAR, HOOGHLY, WB	9830347731	asim.dey033@gmail.com	
6.	SS SOUND & ELECTRIC	SUMAN KAR	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9007901468	sumankar225@gmail.com	
7.	BISWANATH SOUND AND ELECTRIC	TAPAS ROY	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9830240042	tapas1412roy@gmail.com	
8.	SONA ELECTRIC	SANTANU SAHA	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	6291965627	santanu821989@gmail.com	
9.	BACCHA ELECTRIC	MD. RUSTAM	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9903165173	mrusatam37926@gmail.com	
10.	DAS ENTERPRISE	SACHINDRA NATH DAS	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9871292914	sachindradas1972@gmail.com	
11.	ARNAB ENTERPRISE	SANJOY BHATTACHARJEE	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	8582961682		
12.	PAL ELECTRIC	SUMAN PAL	PROPRITER	BHADRESWER, HOOGHLY, WB	8777589315	sumanpal8105@gmail.com	
13.	BIJLI ELECTRIC	MONAJ MALI	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9836741044	bukai.mali@gmail.com	

14.	PAUL ELECTRIC COMPANY	CHITRALEKHA PAL	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9830050589	suprim.pal@gmail.com	
15	MISHRA ELECTRIC	SHIV PRASAD MISHRA	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9831273547	mantumishra536@gmail.com	
16	M/S TAPAN ELECTRIC	TAPAN MANNA	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9088147206	mannatapanc@gmail.com	
17.	JP ELECTRIC	KANAI PAL	PROPRITER	CHANDANNAGAR, HOOGHLY, WB	9883090674	kanaipal056@gmail.com	
18.	INDORAMA INDIA PVT. LTD	PRAKASH BHOWMIK	PROPRITER	DURGACHAK , HALDIA. WB	9679999985	Prakash.bhowmik@indorama.com	
19	MOZI TRONICS		FACTORY MANAGER	HINDMOTOR , HOOGHLY	7980842976	Ashis.m@mozitronics.com	
20	DAS ELECTRIC	GOUTAM DAS	PROPRITER	JHAFAPUKUR KOLONY . SAHAGANJ, WB	8274016408	Goutamsraboni.das@gmail.com	
21	A R CONSTRUCTION	RATANLAL MONDAL	PARTNER	SAHAGANJ, WB	9339155496		
22	ROYAL ENGINEERS CO-OPERATIVE SOCIETY LIMITED	R. GHOSH	PROPRITER	PANDUA, HOOGHLY	7479080934	Royal.engineers@yahoo.in	
23	R.K ENTERPRISE	PIJUSH KARMAKAR	PROPRITER	SAHAGANJ, HOOGHLY,WB	9231831010	Rkenterprise292@gmail.com	
24	CHANDA CONSTRUCTION	SANKAR CHAND	PROPRITER	SAHAGANJ, HOOGHLY,WB	7980949841	chandaconstruction09@gmail.com	
25	MONDAL ELECTRIC	SUBRATO MONDAL	PROPRITER	KHANAKUL , HOOGHLY	8617501190		
26	ELECTRO CONTROL	AMIT KUMAR DEY	PROPRITER	BALLY , HOWRAH		electrocon@gmail.com	
27	TARAFDAR ENTERPRISE	SADHAN TARAFDAR	PROPRITER	RABINDRANAGAR , HOOGHLY	9681022271		
28	TESLA ENGINEERING SOLUTION	DIBYENDU GHOSH	PROPRITER	HOOGHLY	9903987754	teslakolkata@gmail.com	
29	BIJON DEBNATH	BIJON DEBNATH	PROPRITER	SEVOKE ROAD , SILIGURI	9637063393		
30	SARKAR	PRASANJIT	PROPRITER	HAKIMPARA , SILIGURI	892724557		

	COMMUNICATION	SARKAR					
31	SANYAM TRADERS	SUBHODEEP DEBNATH	PROPRITER	SILIGURI	7908812976		
32	PAUL ENTERPRISE	SARUP PAUL	PROPRITER	SEVOKE ROAD , SILIGURI	9435297421		
33	ARNAB ENTERPRISE	KAMAL SARKAR	PROPRITER	DASHRATH PALLY, SILIGURI	9851020691		
34	RABI ENTERPRISE	RABI DEBNATH	PROPRITER	SEVOKE ROAD , SILIGURI	9734085951		
35	SHREE RADHA KRISHNA ENTERPRISE	BIJAN DEBNATH	PROPRITER	SEVOKE ROAD , SILIGURI	6297277245		
36	SANANDA ELECTRIC	TAPAN MAJUMDER	PROPRITER	MANUSH PUR HOOHLY			
37	ENERGY SQUARE	B GHOSH	PROPRITER	RAGHUNATH PUR LAKE ROAD BASIHAT 24 PGS(N)	9088120480	energysquare@gmail.om	
38	ELECTRIC SOLUTION		PROPRITER	CHILANDANGI, HOOGLY	7890229006	Elesolu2016@rediffmail.com	
39	RD ELECTRIC ENGINEERING CO	B DAS	PROPRITER	SATAPIRTOLA,CHINSURAH, HOOGLY			
40	SP ENTERPRISE		PROPRITER	2/66 GANDHI COLONY KOL- 2	943386087		
41	DUTTA ENTREPRISE	KOUSHIK DUTTA	PROPRITER	S.S.COLONY, SILIGURI	7001030783		

Annexure 4: 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
2025-28	180	100% self employed	36	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
										----	----	----	----

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

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	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	NA	NA
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	NA	NA
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners	NA	NA
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	NA	NA
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	NA	NA
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	NA	NA
7	<input type="checkbox"/> Industry Exposure/OJT/ 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
Electrical Safety and Hazard Management OC1	Apply Electrical Safety and Hazard Management equipment.	10	40		
	(1.1) Use proper personal protective equipment. (1.2) Follow safety rules and procedures. (1.3) Apply safe working practices (1.4) Apply basic first aid to address common accidents (1.5) Maintain a clean, organized and safe work environment (1.6) Practice safe handling and usage of tools, creative & Decorative lighting system.				
	Total Marks	10	40		
Electrical Principles and Wiring System Testing OC2	Describe the Electrical Principles and Wiring System Testing	10	30		
	(2.1) Explain Ohm’s law , Resistors and Laws of Resistance. (2.2) Demonstrate the Series and Parallel Circuits and measurement of unknown resistance. (2.3) Select and install electrical material and components, for lighting arrangement. (2.4) Identify and Use of Wiring Accessories and earthing practice.				
	Total Marks	10	30		
Basic and Digital Electronics Troubleshooting OC3	Explain the Basic Electronics and Digital Electronics Troubleshooting	10	40		
	(3.1) Introduction to Basic and digital Electronics ,troubleshoot electronics circuits. (3.2) Identify the Semiconductor Diodes, transistor, IC’s etc. (3.3) Demonstrate rectifier circuit.				
	Total Marks	10	40		
Engineering Drawing and Lighting Design . OC4	Interpret the Engineering Drawing and Lighting Design	15	60		
	(4.1) Explain Lighting fundamentals and different types of light . (4.2) Apply lighting principles to various spaces,.				

	(4.3) Create different colors and lighting on mood, ambiance, and overall aesthetics. (4.4) Read and apply engineering drawing in the field of decorative lighting				
	Total Marks	15	60		
Decorative Lighting Installation and Maintenance OC5	Plan and execute the decorative Lighting Installation and Maintenance	20	60		
	(5.1) Describe different types of advanced lights used in decorative lighting system. (5.2) Install various lighting fixtures, wiring, and grounding, as per safety protocols. (5.3) Demonstrate the process of finding and repairing common lighting system issues				
	Total Marks	20	60		
Dynamic Lighting and Control Systems OC6	Demonstrate Dynamic Lighting system and control systems	15	60		
	(6.1) Introduction to dynamic lighting systems, and controlled remotely. (6.2) Apply lighting control software and hardware in the dynamic lighting systems. (6.3) create various lighting effects by programming for specific effects				
	Total Marks	15	60		
Lighting Applications OC7	Execute the decorative Lighting Applications.	20	60		
	(7.1) Apply creative lighting techniques to various applications. (7.2) Design various lighting effects, such as color changes, dimming, to the different spaces.				
	Total Marks	20	60		
Employability Skills DGT/VSQ/N0101 OC 8	Employability Skill-30 Hrs	50	0		
	(8.1) As per NCVET guided course module				
	Total Marks	50	0		
On the job training OC9	Work in real job situation with emphasis on basic safety and hazards	0	0	100	
	(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 90 Hours.)				
	Total Marks	0	0	100	
Grand Total		150	350	100	

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 WBSCVT for conducting the assessment online through Portal with two probable dates for Assessment
- WBSCVT deploys the ToA certified Assessor for executing the assessment
- WBSCVT 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 WBSCVT 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/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

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