



QUALIFICATION FILE

ELECTRICAL SAFETY 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:

SAFETY SKILL DEVELOPMENT FOUNDATION

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Section 1: Basic Details

1.	Qualification Name	Electrical Safety Supervisor																						
2.	Sector/s	Hydrocarbon, Iron & steel, Mining, Power, Automotive, Construction, Chemical / Petrochemical, and others																						
3.	Type of Qualification: <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved)	Qualification Name of existing/previous version:																					
4.	a. OEM Name b. Qualification Name (Wherever applicable)																							
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QC-05-CO-02970-2024-V1-SSDF	6. NCrf/NSQF Level: 5																					
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	The Electrical Safety Supervisor will be responsible to ensure safe operations of power systems. As an electrical supervisor, the professional will demonstrate strong understanding of electrical safety engineering practices, will ensure that all electrical work at the worksite is completed on time and in accordance with the rules and regulations implied in the industry. The Electrical Safety Supervisor is responsible for maintaining at par electrical safety in industries. The professional will contribute in designing and improving safety performance and in meeting the statutory requirements set by the governing bodies.																						
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 - applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Completed 4-year UG with science</td> <td>1</td> </tr> <tr> <td>2</td> <td>Completed 3-year UG with science</td> <td>2</td> </tr> <tr> <td>3</td> <td>Completed 3-year diploma after 10th</td> <td>3</td> </tr> <tr> <td>4</td> <td>Completed 2 year NTC after 10th</td> <td>4</td> </tr> <tr> <td>5</td> <td>Previous relevant qualification of NSQF level 4.5</td> <td>1.5</td> </tr> <tr> <td>6</td> <td>Previous relevant qualification of NSQF level 4</td> <td>3</td> </tr> </tbody> </table>	S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - applicable)	1	Completed 4-year UG with science	1	2	Completed 3-year UG with science	2	3	Completed 3-year diploma after 10th	3	4	Completed 2 year NTC after 10th	4	5	Previous relevant qualification of NSQF level 4.5	1.5	6	Previous relevant qualification of NSQF level 4	3	
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - applicable)																						
1	Completed 4-year UG with science	1																						
2	Completed 3-year UG with science	2																						
3	Completed 3-year diploma after 10th	3																						
4	Completed 2 year NTC after 10th	4																						
5	Previous relevant qualification of NSQF level 4.5	1.5																						
6	Previous relevant qualification of NSQF level 4	3																						

		b. Age- 18 Years				
10. Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	20	11. Common Cost Norm Category (I/II/III) (wherever applicable): I				
12. Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	No					
13. Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended					
	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
	Classroom (offline)	300	210	90	-	600
	Online	-	-	-	-	-
(Refer Blended Learning Annexure for details)						
14. Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/2141.2600 Occupational Health and Safety Specialist.					
15. Progression path after attaining the qualification (Please show Professional and Academic progression)	Vertical Progression Electrical Safety Inspector, L 6 Horizontal Progression Electrical Safety Trainer , L 5					
16. Other Indian languages in which the Qualification & Model Curriculum are being submitted	English, Hindi					
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 will be encouraged to join.					
20. Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

21. Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" 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: Anand Kumar Singh Email: aksingh@ssdfindia.org Contact No.: +91-8505955506 Website: www.ssdfindia.org	
23. Final Approval Date by NSQC: 27-08-2024	24. Validity Duration: 3 Years	25. Next Review Date: 27-08-2027

NSQC Approved

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 to the 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-R ec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Introduction to Occupational Safety, Health, and Environment (OSHE).	SSD/N1301 v 1.0	Core	5	4	60	40	20	0	120	50	50	-	-	100	20%
2.	Electrical Hazard Identification, Risk Assessment, and Hazard Control..	SSD/N1302 v 1.0	Core	5	3	45	25	20	0	90	50	50	-	-	100	15%
3.	Electrical Machines & Power Systems	SSD/N1303 v 1.0	Core	5	3	45	25	20	0	90	50	50	-	-	100	15%
4.	Electrical Switchgear and Protective Devices	SSD/N1304 v 1.0	Core	5	3	45	25	20	0	90	50	50	-	-	100	15%
5.	Statutes & Legislative : Safety, Health & Electricity.	SSD/N1305 v 1.0	Core	5	3	45	45		0	90	50	50	-	-	100	15%
6.	Plan & Organize Electrical Emergency protocols	SSD/N1306 v 1.0	Core	5	2	30	20	10	0	60	50	50	-	-	100	10%
7.	Employability Skills	DGT/VSQ/N0102	Non-Core	4	2	30	30	-	0	60	25	25	-	-	50	10%
Duration (in Hours) / Total Marks				-	20	300	210	90	0	600	325	325	-	-	650	100%

Optional NOS/s: No

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.	N/A															
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

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

Minimum Pass Percentage – Aggregate at qualification level: 50% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: 35% (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)	UG/PG in relevant field with 4 years' experience UG in any discipline / Diploma in relevant field with 7 years' experience ITI/12TH with 12 years' experience
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	UG/PG in relevant field with 5 years' experience UG in any discipline / Diploma in relevant field with 8 years' experience ITI/12TH with 13 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	

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	UG/PG in relevant field with 4 years' experience UG in any discipline / Diploma in relevant field with 7 years' experience ITI/12TH with 12 years' experience
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	UG/PG in relevant field with 3 years' experience UG in any discipline / Diploma in relevant field with 6 years' experience ITI/12TH with 11 years' experience
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	UG/PG in relevant field with 5 years' experience UG in any discipline / Diploma in relevant field with 8 years' experience ITI/12TH with 13 years' experience
4.	Assessment Mode (Specify the assessment mode)	Offline and online
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input checked="" 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): 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): No
4	Number of Industry validation provided: 30
5	Estimated nos. of persons to be trained and employed: 35,000
6	Evidence of Concurrence/Consultation with Line Ministry/State Departments: "No"

Section 6: Annexure & Supporting Documents Checklist

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>	No
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	Yes
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:	No

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	Electrical Safety Supervisor is typically responsible for ensuring that all electrical installations, maintenance, and operations in industrial or commercial settings adhere to safety regulations and standards. Their role involves both theoretical knowledge and practical implementation of electrical safety processes.	The job holder requires a well-developed skill and theoretical & knowledge with clear choices of procedures and in familiar context & situation.	5
Professional and Technical Skills/ Expertise/ Professional Knowledge	Job holder is required to ensure safety process compliances as per standing order procedures, as per standards, regulation, and norms. The job holder will have very good factual & theoretical knowledge of regulations, statutory requirements, implementation processes, steps involved to ensure safety of employees, workers, and assets of the organization.	The job holder should have very good factual & theoretical knowledge & principles in context of safety requirements of the organization and various steps involved are: <ul style="list-style-type: none"> ● Hazard identification, categorization. ● Accident Prevention Measures. ● Statutory and Legal requirements ● Indian and basic international standards 	5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	The job holder is expected to have cognitive & practical skills to ensure safety, generate solutions to specific issues related to safety and ability to ensure compliance of the safety norms and measures as per SOP and deployment of safety equipment.	The outcomes expected from the job holder requires cognitive & practical skills to ensure safety plan of employees & workers, suggest solutions to specific problems. It also needs to exhibit proactive cooperation and collaboration with the other teams & members. The job holder will have knowledge of operation & deployment for safety equipment. He will provide timely communication, suggestions, guidance in deployment of safety equipment.	5

Broad Learning Outcomes/Core Skill	The job holder is expected to analyze the risks & hazards, categorize, and suggest suitable methods for prevention and deployment of the equipment and ensure processes & statutory requirements. He is also expected to have core skills to demonstrate teamwork, time management, effective guidance, and communication to ensure compliance to set standards and procedures.	The job holder will require mathematical analysis to arrive at the methods, equipment & process compliance needs & checks. He is also expected to demonstrate;- <ul style="list-style-type: none"> • Teamwork • Time management • Effective guidance and communication • Ensure compliance to standards. • Ensure process compliance. 	5
Responsibility	The Job holder carries out safety compliance in the organization and is directly responsible to ensure compliance of all applicable standards, regulations and procedures and deployment of safety equipment. He is also responsible for the subordinates working directly under him.	The Job holder is directly responsible for his work in carrying out implementation of safety procedures and ensuring compliances. He is responsible for his work & learning and subordinates working directly under him. He needs to have adequate knowledge of the standard, safety measures and the statutes & standards.	5

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

No	Tools/Equipment Name	Specifications	Quantity for specified batch size
•	Personal Protective Equipment (PPE)	Nos	15
•	Multimeters	Nos	1
•	Clamp Meters	Nos	1

No	Tools/Equipment Name	Specifications	Quantity for specified batch size
•	Voltage Testers:	Nos	1
•	Phase Sequence Indicators	Nos	1
•	Non-contact voltage testers	Nos	1
•	Megohmmeters	Nos	1
•	Insulation Resistance Testers	Nos	1
•	Ground Resistance Testers	Nos	1
•	Circuit Breaker Test Sets	Nos	1
•	Emergency Showers and Eyewash Stations	Nos	1
•	Fire Extinguishers	Nos	1
•	First Aid Kits	Nos	1
•	Emergency Response Kits	Nos	1
•	Lockout/Tagout (LOTO) Kits:	Nos	1
•	Circuit Tracers and Analysers	Nos	1
•	Insulated Hand Tools:	Nos	5
•	Portable Generators and Backup Power Supplies	Nos	1
•	Grounding and Bonding Equipment	Nos	1
•	Cable Pullers and Fish Tapes	Nos	1
•	Voltage and Current Calibrators	Nos	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Black/White board
2. Marker
3. Projector
4. Computer with relevant software

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	Irrigation Department Government of UP	Er. Manoj Kumar Arya	Junior Engineer	Aligarh, Uttar Pradesh	9412818118	-	-
2	Shaheed Bhagat Singh College, University of Delhi	Dr. Chandrakanta	Former Faculty	Delhi University, New Delhi	-	chandrakantajnu@gmail.com	-
3	Surya Contractors	Mr. Rajendra Kumar	Billing Engineer (Civil)	Amritsar, Punjab	8802661569	-	-
4	Accurate Institute of Management	Dr. S L Rajput	Associate Professor	Greater Noida, Uttar Pradesh	807626549	-	-

	t and Technology						
5	Pratham education foundation	Mr. Ashutosh Sharma Mr. Raman Singh	Program Associate (Civil)	Noida, Uttar Pradesh	7982315949 7827582148	-	-
6	CPWD, New Delhi	Mr. Bharat Singh Chauhan	Junior Engineer (Civil)	O/A Assistant Engineer, 4/N, CPWD Shahjahan road, New Delhi	-	-	-
7	UPPCL, Lucknow	Ms. Sandhya Mishra	Junior Engineer (Civil)	UPPCL, Left Bank Gomti Barrage, Gomti Nagar, Lucknow, UP	-	-	-
8	Deepam Contractors Pvt. Ltd.	Mr. R. B. Singh	Director	H-156 Beta 2, Greater Noida, UP-203010	7503920973	deepamcontractor@gmail.com	-
9	IIT Guwahati	Dr. Sparsh Johari	Assistant Professor	Indian Institute of Technology, Guwahati	7827060976	sparshjohari@iitg.ac.in	-
10	Ciria India Limited	Mr. Akash Nirvan	Head EHSS	C-116, 2 ND & 3 RD Floor,	8800377994	akash.nirvan@morganplc.co	-

				Sector-2, Noida- 201301, UP			
11	IIT Roorkee	Mr. Amarjeet	Research Scholar (Dept. of Civil Engg)	Indian Institute of Technolog y Roorkee, Uttarakhan d	7839116059	-	-
12	N.R., Indian Railways	Bishun Dayal Verma	SSE	Carriage workshop, Alam Bagh, Lucknow- Uttar Pradesh	8707481190 9794830451	-	-
13	Larsen & Toubro Limited	Mr. Rahul Sinha	Assistant Constructio n Manager	NCRTC RRTS Project, Meerut, Uttar Pradesh	-	Rahul.sinhal@lntecc.com	-
14	Ask EHS engineering & consultants Pvt ltd	Mahesh S Lanjekar	Business Head	Surat, Gujarat	9227695202	Mahesh.lanjekar@askehspmc.com	-
15	Symplico	Ms. Lata Rawat	Manager	Surat, Gujarat	9484825000	-	-
16	Pooja Enterprises	Mr. Karan Aggarwal	General Manager	Surat, Gujarat	9725348874	-	-
17	Structural Specialties	Mr. Sawant	-	801, Odyssey,	0222580100	-	-

	& Projects Pvt Ltd			Road No. 9, Wagle Estate, Thane (West), Thane, Maharashtra 400604			
18	Jobby Industrial Services Pvt Ltd	Mr. B Naik	-	UNIT NO. 25 & 26, NAHUR UDYOG CO-OP SOCIETY LTD. PANDIT M. M. MALVIYA MARG, MULUND (W), MUMBAI Mumbai City MH 400080 IN	02221675100	-	-
19	Enercore Power Builders	Mr. S Paramasiram	-	351 / 270, 1st Floor, MKN Road, Alandur, Chennai, Tamil Nadu 600016	(949) 732-4400	-	-

20	Munn Engineers & Developers Pvt Ltd	-	-	Ward No. 3, House No: 26, Nadikhandsahi, Phulbani, IGndhamal, Odisha-762001	-	-	-
21	Micron Electricals	Syed Akbar Ahmed Zaidi Mr. Mohan Rangala	Safety Head EHS Engineer	No.86/E-1, 2nd Cross,3rd Main Road, Industrial Suburb,2nd Stage. Yeshwanth pur, BANGALORE – 560022	9885092841 9515470663	qhseakbar@gmail.com rangalamohanrao@gmail.com	-
22	Tata Project	SK Mohammad Ali Akbar	Safety Officer	Mumbai, Maharashtra, India	9040597712	-	-
23	Reliance Industries Limited	Ravi Ballabh	GM, S&OR-Const. Safety		9725007688	Ravi.ballabh@ril.com	-
24	Signify Innovation India Limited	Pradeep Singh Parhar	Manager Health & Safety	9 th floor, Building 9B, DLF cyber city, Gurugram-Haryana	9814721820	Pradeep.parhar@signify.com	-

25	ASK EHS	Harshit Parikh	Business Development Overseas (HSE Recruitment & Projects)	Surat, Gujarat	6359922897	harshitparikh@askehspmc.com	-
26	JSW	Veerendra Kumar	Safety Consultant			Veerendra.kumar@jsw.in	-
27	Carrier India Limited	Md. Mukaram	Safety Head			md.mukaram@carrier.com	-
28	Kalpataru Group	Lalit Tiwari	President-EHS & Group chief sustainability officer			lalitkumar.tiwari@kalpataru.com	-
29	United Fire & Safety Services	Sandeep Mehta	Owner	GIDC, Industrial estate, makarpura, Vadodara-390010	6358827798	Usafe.fire@gmail.com	-

30	L&T Limited	Manish Gupta	HSE Head	L&T Energy-Hydrocarbon (HSE), Hazira			
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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
2024	200	200	60	60	-	-
2025	500	500	100	100	-	-
2026	700	700	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
N/A													

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: This is a new qualification.

Content availability for previous versions of qualifications: This is a new qualification.

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: Hindi and English

Annexure: 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
SSD/N1301 v 1.0: Introduction to Occupational Safety, Health, and Environment (OSHE)	PC-1 Analyze the concept of Health, Safety and Environment management at the workplace, its importance and the moral, financial and legal reasons for health and safety at the workplace.	4	4	-	-
	PC-2 Apply "Accident Cost- Iceberg" theory of direct and indirect cost incurred from an incident.	4	4	-	-
	PC-3 Identify the employer responsibilities in providing safe working conditions and the employee rights & responsibilities at a workplace.	4	4	-	-
	PC-4 Decipher safety Policy, the general statement of intent in a safety policy, its aim, objects, and "SMART" concept of goal setting	3	3	-	-
	PC-5 Analyze concept of safety audit, audit objective, types, requirement for safety audit at workplace, audit for a task, program, activity, project & machinery.	4	4	-	-
	PC-6 Analyze the scope of internal and external audit, reasons & advantages, responsibility of auditor.	3	3	-	-
	PC-7 Analyze first-party, second-party and third-party audits, scope of the compliance audit, program audit & management system audit.	3	3	-	-
	PC-8 Identify role of management in an organization, role of safety supervisor, safety executive, safety officer, safety engineer, and safety manager.	3	3	-	-
	PC-9 Identify fundamentals of process safety, OSHA standards. QRA, LOPA, SIL, FERA, EERA.	4	4	-	-

	PC-10 Identify role of occupier, controller of premise, role & need of contractors in the organization & work permit to contractors, role of safety committee.	4	4	-	-
	PC-11 Analyze the selection prerequisites of a contractor, management of contractors, review meetings, safety committee meetings, method statements, accident reporting, training programs, statutory inspections, permit to work, gaps in contractor safety implementation of contractor safety.	4	4	-	-
	PC-12 Analyze requirement of Plan-Do-Check-Act (PDCA) Cycle in safety management system; understand and analyze "Plan" & "Do" stages and "Check" and "Act" stages of PDCA cycle.	4	4	-	-
	PC-13 Identify the need of training, the contents of induction training & competent persons at the workplace, carry out "Toolbox talk" and "Induction training"..	3	3	-	-
	PC-14 Apply gas testing using – LEL sensor, O2 sensor, H2S sensor, Co Sensor	3	3	-	-
	NOS Total Marks	50	50	-	-
SSD/N1302 v 1.0: Electrical Hazard Identification, Risk Assessment, and Hazard Control.	PC-1 Identify the definitions in electrical safety.	5	5	-	-
	PC-2 Analyze electrical hazard categories and risks involved in electrical maintenance activities.	5	5	-	-
	PC-3 Interpret Importance of hierarchy of control in maintaining electrical safety.	5	5	-	-
	PC-4 Analyze electrical fires and their control measures	8	7	-	-
	PC-5 Identifies different hazard categories with respect to electrical tools, equipment, and machinery.	7	8	-	-

	PC-6 Interpret correlation of electrical hazards with other hazards such as: Work at height, confined space, working in an excavation, lone working, and slips & trips.	5	5	-	-
	PC-7 Identifies causes and reasons leading to electrical hazards.	5	5	-	-
	PC-8 Identifies circumstances & causes hazards leading to accidents.	5	5	-	-
	PC-9 Recognise tools & equipment handling in electrical systems.	5	5	-	-
	NOS Total Marks	50	50	-	-
SSD/N1303 v 1.0: Electrical Machines & Power Systems	PC-1 Identify basics terminologies in electrical engineering.	5	5	-	-
	PC-2 Identify the difference between Alternating Current and Direct Current.	5	5	-	-
	PC-3 Analyze effects of electricity in the human body.	5	5	-	-
	PC-4 Identify the role of electric conductors and insulators.	5	5	-	-
	PC-5 Analyze wiring requirements in industries.	5	5	-	-
	PC-6 Interpret electrical induction and the concept of safety clearance.	5	5	-	-
	PC-7 Analyze double insulation principles and its applications	5	5	-	-
	PC-8 Identify overload and short circuit in power lines.	4	4	-	-
	PC-9 Recognise overload and short circuit protection in power lines.	4	4	-	-
	PC-10 Analyze operation of electrical machinery like single phase induction motor, three phase induction motor, DC motor, DC generator, AC generators, synchronous motor, servo motor, step up transformer, step down transformer, instrument transformers etc.	4	4	-	-
	PC- 11 Recognise transmission losses in AC & DC power lines.	3	3	-	-
	NOS Total Marks	50	50	-	-
SSD/N1304 v 1.0: Electrical Switchgear and Protective Devices.	PC- 1 Identify various electrical power systems.	5	5	-	-
	PC- 2 Apply the concept of harmonics in power lines.	5	5	-	-
	PC -3 Analyze "Path of least resistance in electric circuit".	5	5	-	-

	PC- 4 Analyze construction of Earth pit as per IS3043 and static electricity.	5	5	-	-
	PC- 5 Recognise protective devices like circuit breakers, interrupting devices for preventing damage to circuits, equipment, and personnel	5	5	-	-
	PC-6 Analyze lightning arresters, surge protectors, fuses, relays, circuit breakers, reclosers, and other devices and best practices in electrical safety	5	5	-	-
	PC- 7 Identify hazards related to electrical arcing and their boundaries.	5	5	-	-
	PC- 8 Perform resistivity test for earth pit placement.	5	5	-	-
	PC- 9 Perform LOTO on the electrical busbar system.	5	5	-	-
	PC- 10 Identify electrical hotspots with the help of thermography.	5	5	-	-
	NOS Total Marks	50	50	-	-
SSD/N1305 v 1.0: Statutes & Legislative: Safety, Health & Electricity	PC-1 Work out regulatory requirements of safety & health measures as per BoCW Act.	4	3	-	-
	PC-2 Identify safety committees constitution, functions, compliances, inspections, and record maintenance.	3	4	-	-
	PC-3 Work out statutes, compliances, inspections, reporting process and record maintenance.	3	3	-	-
	PC-4 Work out safety & health measures requirement as per Factory Act at workplace.	4	3	-	-
	PC-5 Work out welfare measures requirement as per Factory Act at the workplace.	3	4	-	-
	PC-6 Work out facilities to be provided for workers & employees at work place as per Factory Act.	3	3	-	-
	PC-7 Enumerate the responsibilities as per OSH Code 2020 at work place.	4	3	-	-
	PC-8 Enumerate enforcement measures of health & safety legislative requirements as per OSH Code 2020 at work place.	3	4	-	-

	PC-9 Enumerate the Employee's responsibilities as per OSH Code 2020.	3	3	-	-
	PC-10 Work out legal framework for the generation, transmission, distribution, and consumption of electricity in the country..	5	5	-	-
	PC-11 Work out subsequent amendments in the act.	5	5	-	-
	PC-12 Work out the safety requirements as per electricity Acts for individual & organization..	5	5	-	-
	PC-13 Work out the compliance parameters required as electric consumer & distributor as per the Act	5	5	-	-
	NOS Total Marks	50	50	-	-
SSD/N1306 v 1.0: Plan & Organize Electrical Emergency protocols	PC-1 Plan safety resources, schedules, measures and timelines for readiness as per overall work timelines.	5	5	-	-
	PC-2 Work Out hierarchy of the organization and communication to other team members, co-workers, subordinates & superiors, and coordination with other team members.	5	5	-	-
	PC-3 Identify task and allot to subordinates, supervision and coordination among the team members for readiness in sync with overall task & timelines.	5	5	-	-
	PC-4 Analyze resource collection, provisioning of resources to team members as per task & timelines.	6	6	-	-
	PC-5 Communicate & brief to concerned co-workers, subordinates & superiors, provide guidance to subordinate & co-workers for timely and correct completion.	6	6	-	-
	PC-6 Analyze supervision & monitoring progress of work, reporting the progress & completion, preparation of reports & documents.	6	5	-	-
	PC-7 Set up medical emergency measures, in case of accidents/incidents at the workplace.	6	6	-	-

	PC-8 Set up fire emergency measures as per plans in case of any fire accidents at the workplace.	6	6	-	-
	PC-9 Set up emergency assembly area, evacuation plan, sign boards and guidance.	5	6	-	-
	NOS Total Marks	50	50	-	-
DGT/VSQ/N0102: Employability Skills	PC- 1 Identify employability skills required for jobs in various industries	0.5	0.5	-	-
	PC- 2 Identify and explore learning and employability portals	0.5	0.5	-	-
	PC- 3 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.	0.5	0.5	-	-
	PC- 4 Follow environmentally sustainable practices	0.5	0.5	-	-
	PC- 5 Recognize the significance of 21st Century Skills for employment	1.5	1.5	-	-
	PC- 6 Practice the 21st Century Skills such as Self-Awareness, Behavior 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	1.5	1.5	-	-
	PC- 7 Use basic English for everyday conversation in different contexts, in person and over the telephone	1	1	-	-
	PC- 8 Read and understand routine information, notes, instructions, mails, letters etc. written in English	1	1	-	-
	PC- 9 Write short messages, notes, letters, e-mails etc. in English	1	1	-	-
	PC- 10 Understand the difference between job and career	0.5	0.5	-	-
	PC- 11 Prepare a career development plan with short- and long-term goals, based on aptitude	1	1	-	-
	PC- 12 Follow verbal and non-verbal communication etiquette and active listening techniques in various settings	1	1	-	-
	PC- 13 Work collaboratively with others in a team	1	1	-	-
	PC- 14 Communicate and behave appropriately with all genders and PwD	0.5	0.5	-	-
	PC- 15 Escalate any issues related to sexual harassment at workplace according to POSH Act	0.5	0.5	-	-
	PC- 16 Select financial institutions, products, and services as per requirement	0.5	0.5	-	-

PC- 17 Carry out offline and online financial transactions, safely and securely	1	1	-	-
PC- 18 Identify common components of salary and compute income, expenses, taxes, investments etc.	0.5	0.5	-	-
PC- 19 Identify relevant rights and laws and use legal aids to fight against legal exploitation	0.5	0.5	-	-
PC- 20 Operate digital devices and carry out basic internet operations securely and safely	1	1	-	-
PC- 21 Use e- mail and social media platforms and virtual collaboration tools to work effectively	2	2	-	-
PC- 22 Use basic features of word processor, spreadsheets, and presentations	1	1	-	-
PC- 23 Identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	1	1	-	-
PC- 24 Develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	1	1	-	-
PC- 25 Identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	1	1	-	-
PC- 26 Identify different types of customers	0.5	0.5	-	-
PC- 27 Identify and respond to customer requests and needs in a professional manner.	0.5	0.5	-	-
PC- 28 Follow appropriate hygiene and grooming standards	0.5	0.5	-	-
PC- 29 Create a professional Curriculum vitae (Résumé)	-	0.5	-	-
PC- 30 Search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	0.5	-	-	-
PC- 31 Apply to identified job openings using offline /online methods as per requirement	0.5	0.5	-	-
PC- 32 Answer questions politely, with clarity and confidence, during recruitment and selection	0.5	-	-	-
PC- 33 Identify apprenticeship opportunities and register for it as per guidelines and requirement	-	0.5	-	-
Total Marks	25	25	-	-
Grand Total	325	325	-	-

Annexure: 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 are assigned to the assessment agencies for conducting the assessment on SIP/Portal or email.
- Assessment agencies send the assessment confirmation to VTP/TC looping Awarding Body(AB)
- Assessment agency deploys the ToA certified Assessor for executing the assessment.
- AB ensures the assessment process & records.

2. Testing Environment:

- Check the assessment location, date, and time.
- 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 AA/Subject Matter Experts (SME) and verified by the other SME.
- Questions are mapped to the specified assessment criteria.
- Assessor will be ToA certified & trainer will be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Center photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location.
- Method for assessment documentation, archiving, and access
- Soft/Hard copies of the documents are stored.

On the Job:

1. The candidate works for all modules.
2. The candidate must score 50% in assessment to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills, understanding needs & requirements.
 - Report prepared by trainees during OJT.
4. Assessment of task ensure that the candidate can perform all tasks of the job role required:

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 defines 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 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 based on 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