



QUALIFICATION FILE

Technician (Auto Electrical Design)

☒ 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: 4

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Section 1: Basic Details

1.	Qualification Name	Technician (Auto Electrical Design)	
2.	Sector/s	Automotive	
3.	Type of Qualification: ☐ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i> 2022/AUT/KSDC/05919	Qualification Name of existing/previous version: Technician (Auto Electrical Design)-V1
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	Technician (Auto Electrical Design)	
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QG-04-AU -05919-2025-V2-KSDC	6. NCrf/NSQF Level:4
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	This course provides knowledge and skills in auto electricals systems and sub systems such as wiring harness, lighting components, charging system, Starter motor, Alternator, Ignition system, safety system, instrument panel, body electrical systems, engine management system etc. Its helps to develop CAD skills in schematic drawing, 3d modelling, assembly, wiring harness, preparation of bill of materials of auto electrical systems and sub systems. It also covers various case studies and hands on experience on project work. It also provides career opportunity to work in automobile industries.	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: 12th grade pass OR Completed 2nd year of 3-year diploma (after 10th) OR Pursuing 2nd year of 3-year regular Diploma (after 10th) OR 10th grade pass with two years of any combination of NTC/NAC/CITS or equivalent OR 8th pass plus 2-year NTC plus 1-Year NAC plus 1-Year CITS OR 11th Grade Pass with 1.5-year relevant experience OR 10th Grade Pass with 3-year relevant experience OR Previous relevant Qualification of NSQF Level 3.5 with 1.5-year relevant experience OR	

		Previous relevant Qualification of NSQF Level 3.0 with 3-year relevant experience b. Age: Minimum Age: 15 Years																						
10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	14	11. Common Cost Norm Category (I/II/III) (wherever applicable):																					
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																						
13.	Training Duration by Modes of Training 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>105</td><td>165</td><td>150</td><td></td><td>420</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)	105	165	150		420	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	105	165	150		420																			
Online																								
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	7412.0701 – Electrician Automobile																						
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Technician (Auto Electrical Design) → Sr. Technician (Auto Electrical Design) → Lead (Auto Electrical Design)																						
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	No																						
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:																						
18.	Is the Job Role Amenable to Persons with Disability	☐ Yes ☒ No If "Yes", specify applicable type of Disability:																						
19.	How Participation of Women will be Encouraged																							
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☐ Yes ☐ No																						
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools ☐ Yes ☐ No Colleges ☒ Yes ☐ No																						
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Nagaraja NM, IAS Managing Director, Karnataka Skill Development Corporation Email: md.ksdc@karnataka.gov.in Website: https://kaushalkar.karnataka.gov.in/en Contact No.: 080 2952 2222																						
23.	Final Approval Date by NSQC:	24. Validity Duration: 3 years		25. Next Review Date																				

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/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Comply with workshop health and safety guidelines		Non-Core	4	1	5	0			5	2	4		4	10	10
2.	Understand various systems and sub systems of Auto electricals.		Core	4		5	20			25	2	4		4	10	10
3.	Able to create CAD model and 2D drawings of electrical system and subsystem's different components.		Core	4	1	10	20			30	2	4		4	10	10
4.	Sheet metal brackets design and packing for electrical components.		Core	4	1	10	20			30	2	4		4	10	10
5.	Schematic 2D drawing of all auto electrical systems.		Core	4	1	10	20			30	2	4		4	10	10
6.	Understand electrical architecture of vehicle including all electrical systems with its position and its components.		Core	4	1	10	20			30	2	4		4	10	10
7.	Assignments (Based on case studies and Industrial application)		Core	4	3	40	50			90	2	5		5	12	12

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
8.	OJT (Mini Project (Based on Industrial application))		Core	4	5			150		150	4	7		7	18	18
9.	Employability Skills			4	1	15	15			30	2	4		4	10	10
Duration (in Hours) / Total Marks						105	165	150		420	20	40		40	100	100

Elective NOS/s:

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

Optional NOS/s:

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

Assessment - Minimum Qualifying Percentage

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

Minimum Pass Percentage – Aggregate at qualification level: 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) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 2-year experience in relevant field and domain certification.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 4-year experience in relevant field and domain certification.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 4-year experience in relevant field.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 2-year experience in relevant field.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Graduate in Engineering with 6-year experience in industry or training 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): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): Yes
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided:
5.	Estimated nos. of persons to be trained and employed:
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: NA If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrF/NSQF level justification based on NCrF level/NSQF descriptors <i>(Mandatory)</i>	<i>Annexure 1</i>
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	<i>Annexure 2</i>
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	<i>Annexure 6</i>
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	<i>Annexure 7</i>
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is "Blended Learning")</i>	<i>NA</i>
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	<i>NA</i>
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	<i>Annexure 8</i>
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	<i>Model Curriculum</i>
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	
12.	Any other document you wish to submit:	

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	- Electrical Technician is expected to assist in design of electrical systems of vehicle. - Preparation of 3D cad models and 2D schematics for wiring harness and packaging activities.	- Auto electrical technician understands architecture, subcomponents of electrical systems. - The person can prepare cad models and 2d schematics for the same under the CAD designer supervision.	NSQF Level 4
Professional and Technical Skills/ Expertise/ Professional Knowledge	Knowledge of Automobile electrical systems like starting system, charging system, battery, alternator, wiring system, wiring harness, safety system, different sensors etc.	Auto electrical technician can identify all the electrical components with its required packaging components in vehicle & can prepare 3D model and 2D schematic for the same.	NSQF Level 4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	- Working as a member of a team/ within a team. Display Personal Motivation. Positive Attitude & Passion for Work - Good skills in written and oral communication with some clarity, basic knowledge of Language to support such communication. - Intermediate literacy and Numeracy skills - Skills for workshop calculations and basic of arithmetic and algebraic principles. - Good logical and analytical reasoning skills.	- Technician (Auto Electrical Design) will be able to find the faults in packaging of electrical components and suggest better fitments through 3d CAD preparation and 2D schematics. - Technician will be to design auto electrical system with the help of CAD, suggest improvement in packaging if needed. Prepare BOM of electrical of vehicle with minimum supervision.	NSQF Level 4
Broad Learning Outcomes/Core Skill	- Auto electrician can read the schematic drawing of wiring system and identify all electrical components effectively to work on it accordingly with inspection and updation needed. - Designing & Packaging of electrical wiring harness and components with help of different brackets and other components.	- Automobile electric technician work on vehicle electric harness components design & packaging activities with minimum supervision of designer. - Design of different brackets for fitment of wiring harness and other electrical components.	NSQF Level 4
Responsibility	Technician (Auto Electrical Design) is responsible to: - Understand vehicle electrical system - Design wiring harness and its components with help of CAD software. - Packaging activities of all electrical components.	Technician (Auto Electrical Design) will identify packaging issues on vehicle and can suggest improvements through 3D cad model and 2D schematics of electrical components.	NSQF Level 4

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

List of Tools and Equipment

Batch Size:

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	EV Vehicle	--	1 No
2	Electric Vehicle Training Kit	--	1 No
3	EV Kit Chassis	--	1 No
4	Transmission / Gearbox Demo Kit	--	1 No
5	TATA ACE - Chassis	--	1 No
6	Car lift -4Ton	--	1 No
7	Cooling System	--	1 No
8	Fuel System & Urea Handling (Petrol)	--	1 No
9	Exhaust System	--	1 No
10	Commercial Vehicle Chassis Structure	--	1 No
11	Rear Axle	--	1 No
12	Suspension Steering Wheel and Tyra Systems	--	1 No
13	Brakes & Controls	--	1 No
14	HVAC Demo Kit	--	1 No
15	Electronic Ignition System of An Automobile 4-Wheeler	--	1 No
16	Demonstration Board of Working Model MPFI System with Motorized control	--	1 No
17	Instruction Kit for Charging System	--	1 No
18	Instruction Kit for Starting System	--	1 No
19	Spray Painting Booth	--	1 No
20	Lighting and Wiring System	--	1 No
21	System Set up and integration with Design	--	1 No

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Laptop
2. Whiteboard and Markers
3. Projector
4. Screen
5. Stationary

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)

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

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

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

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

- 1.
- 2.

Content availability for previous versions of qualifications:

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

Languages in which Content is available:

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

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

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

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

Annexure 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
Comply with workshop health and safety guidelines	PC 1. Comply with safety, health, security, and environment related regulations/ guidelines as per organizational/ manufacturer's policy.				
	PC 2. Carry out maintenance operations as per the manufacturers and workshop related health and safety guidelines/ standard operating procedures.				
	PC 3. Follow safety regulations and procedures regarding service workshop hazards and risks.				
	PC 4. Use appropriate protective clothing/ equipment for specific tasks and work conditions as per service manual.				
	PC 5. Record and report details related to operations, incidents, or accidents, as applicable.				
	Total Marks	2	4		4
Understand various systems and sub systems of Auto electricals.	PC 1. Identify different electrical system in automobile like wiring harness, lighting components, charging system, Starter motor, Alternator, Ignition system, safety system, instrument panel, body electrical systems, engine management system, different types of sensors, ECUs, different components for packaging wiring harness, etc.				
	PC 2. Prepare sketches of different auto electrical system showing their structure and different components with its applications.				
	Total Marks	2	2		4
Able to create CAD model and 2D drawings of electrical system and subsystem's different components.	PC 1. Design the electrical system by creating 3D CAD model of automotive electrical components and wiring harness with its all subcomponents.				
	PC 2. Prepare schematic 2D drawing of different wiring systems of automobile.				
	PC 3. Prepare Bill of Material for different electrical systems.				
	Total Marks	2	4		4
Sheet metal brackets design and packaging for electrical components.	PC 1. Understand different types of sheet metal brackets and all other components like different types of clips, splices, grommets, which used to fix auto electrical components & wiring system in automobile.				
	PC 2. Prepare 3D cad part model, assembly & 2D drawing for the same with the Bill of Material.				
	Total Marks	2	4		4
Schematic 2D drawing of all auto electrical systems	PC 1. Schematic drawing of all auto electrical systems with meaning of GD&T symbols and all concern technical terms related to electrical drawings.				
	PC 2. Prepare information fitment drawings for body harness, chassis harness, engine harness, lighting harness, etc with their packaging study.				
	Total Marks	2	4		4
Understand electrical architecture of vehicle including all electrical	PC 1. Prepare conceptual 3D cad model of vehicle having all electrical systems.				
	PC 2. Prepare schematic 2D drawing of electrical architecture of vehicle showing its all wiring systems and subcomponents.				

systems and its components.	Total Marks	2	4		4
Assignments	PC1 Based on case studies and Industrial application				
	Total Marks	2	5		5
OJT (Mini Projects (Based on case studies and Industrial application))	- PC1 Conducting Market survey / Market Research - PC2 Addressing basic problems in society / industry by using empathize tool. - PC3 Concept Design a specific product in line with current customer needs - PC4 Brainstorming sessions with industry experts to design specific product - PC5 3D Printing for Prototyping of Mechanical Component - PC6 Exposure to Product Innovation				
		4	7		7
Employability Skills	- PC1 Understanding the Significance of Employability skills - PC2 Identification the Constitutional values - PC3 Explaining Becoming a professional in the 21st century - PC4 Speak with Others in Basic English skills - PC5 Significance of Career development and goal setting - PC6 Etiquette of Communication skills - PC7 Use Various Financial and legal literacy - PC8 Awareness to Essential Digital Skills				
	Total Marks	2	4		4
Grand Total		20	40		40

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 the assessment agencies for conducting the assessment on SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors.
- 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 & trainer must be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged 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 (which covers the job profile of Automotive Service Assistant Technician) will be assessed separately.
2. The candidate must score 60% in each module to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills and etiquette of dealing with customers, understanding needs & requirements, assessing the customer and perform Soft Skills effectively:
 - Videos of Trainees during OJT
 -
4. Assessment of each Module will ensure that the candidate is able to:
 - Effective engagement with the customers
 - Understand the working of various tools and equipment
 ->

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