



## QUALIFICATION FILE

### Electric Vehicle Quality Control Inspector

- 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: 3.5

Submitted By:

Automotive Skills Development Council

E-113, Okhla Industrial Estate

Phase- III,

New Delhi-110020

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Section 1: Basic Details

1.	<b>Qualification Name</b>	<b>Electric Vehicle Quality Control Inspector</b>																			
2.	<b>Sector/s</b>	<b>Automotive</b>																			
3.	<b>Type of Qualification:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	<b>NQR Code &amp; version of existing/previous qualification:</b> <i>(change to previous, once approved)</i>	<b>Qualification Name of existing/previous version:</b>																		
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>																				
5.	<b>National Qualification Register (NQR) Code &amp; Version</b> <i>(Will be issued after NSQC approval)</i>	QG-3.5-AU-00538-2023-V1.1-ASDC	6. <b>NCrF/NSQF Level: 3.5</b>																		
7.	<b>Award (Certificate/Diploma/Advance Diploma/ Any Other)</b> <i>(Wherever applicable specify multiple entry/exits also &amp; provide details in annexure)</i>	Certificate																			
8.	<b>Brief Description of the Qualification</b>	The individual is responsible for conducting inspection and maintaining quality of the manufactured automotive products and related processes to deliver high quality products to customers.																			
9.	<b>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</b>	<b>a. Entry Qualification &amp; Relevant Experience:</b> <table border="1" style="margin-left: 20px;"> <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>11th Class pass</td> <td></td> </tr> <tr> <td>2</td> <td>10th Class Pass with pursuing continuous schooling</td> <td></td> </tr> <tr> <td>3</td> <td>8th Class pass</td> <td>3 years of relevant experience</td> </tr> <tr> <td>4</td> <td>8th Class pass with 2 years of NTC</td> <td>1 year of relevant experience</td> </tr> <tr> <td>5</td> <td>Certificate-NSQF (Automotive Quality Control Inspector Level 3)</td> <td>2 years of relevant experience</td> </tr> </tbody> </table> <b>b. Age:</b> 18 years		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	11th Class pass		2	10th Class Pass with pursuing continuous schooling		3	8th Class pass	3 years of relevant experience	4	8th Class pass with 2 years of NTC	1 year of relevant experience	5	Certificate-NSQF (Automotive Quality Control Inspector Level 3)	2 years of relevant experience
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																			
1	11th Class pass																				
2	10th Class Pass with pursuing continuous schooling																				
3	8th Class pass	3 years of relevant experience																			
4	8th Class pass with 2 years of NTC	1 year of relevant experience																			
5	Certificate-NSQF (Automotive Quality Control Inspector Level 3)	2 years of relevant experience																			
10.	<b>Credits Assigned to this Qualification, Subject to Assessment</b> <i>(as per National Credit Framework (NCrF))</i>	14	11. <b>Common Cost Norm Category (I/II/III)</b> <i>(wherever applicable): I</i>																		
12.	<b>Any Licensing requirements for Undertaking Training on This Qualification</b> <i>(wherever applicable)</i>	NA																			

13.	<b>Training Duration by Modes of Training Delivery</b> ( <i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i> )	<input type="checkbox"/> Offline <input checked="" type="checkbox"/> Online <input type="checkbox"/> Blended					
		<b>Training Delivery Modes</b>	<b>Theory (Hours)</b>	<b>Practical (Hours)</b>	<b>OJT Mandatory (Hours)</b>	<b>OJT Recommended (Hours)</b>	<b>Total (Hours)</b>
		<b>Classroom (offline)</b>	139:00	251:00	30:00		420
		<b>Online</b>					
		<i>(Refer Blended Learning Annexure for details)</i>					
14.	<b>Aligned to NCO/ISCO Code/s</b> ( <i>if no code is available mention the same</i> )	NCO-2015/3139.5001					
15.	<b>Progression path after attaining the qualification</b> ( <i>Please show Professional and Academic progression</i> )	To be Developed					
16.	<b>Other Indian languages in which the Qualification &amp; Model Curriculum are being submitted</b>	NA					
17.	<b>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:					
18.	<b>Is the Job Role Amenable to Persons with Disability</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:					
19.	<b>How Participation of Women will be Encouraged</b>	No gender sensitization					
20.	<b>Are Greening/ Environment Sustainability Aspects Covered</b> ( <i>Specify the NOS/Module which covers it</i> )	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
21.	<b>Is Qualification Suitable to be Offered in Schools/Colleges</b>	Schools <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
22.	<b>Name and Contact Details of Submitting / Awarding Body SPOC</b> <i>(In case of CS or MS, provide details of both Lead AB &amp; Supporting ABs)</i>	Name: Mr. Arindam Lahiri Email: ceo@asdc.org.in Contact No.: 011-42599800 Website: https://www.asdc.org.in/					
23.	<b>Final Approval Date by NSQC:</b> 03/05/2023	24. <b>Validity Duration:</b> 3 Years			25. <b>Next Review Date:</b> 03/05/2026		

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

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

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

S. No	NOS/Module Name	NOS/Module Code & Version <i>(if applicable)</i>	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) <i>(if applicable)</i>
1.	Organize work and resources (Manufacturing)	ASC/N9803, V1.0	Non-Core	3	2	25	35			60	50	30	00	20	100	15
2.	Employability Skills (60 Hours)	DGT/VSQ/N0102, V1.0	Non-core	5	2	24	36			60	20	30	00	00	50	10
3.	Inspect and maintain the electric vehicle (EV) parts and process quality and implement corrective actions	ASC/N6313, V1.0	Core	4	10	90	180	30		300	30	50	00	20	100	75
<b>Duration (in Hours) / Total Marks</b>						<b>14</b>	<b>139</b>	<b>251</b>	<b>30</b>	<b>420</b>	<b>100</b>	<b>110</b>	<b>00</b>	<b>40</b>	<b>250</b>	<b>100</b>

Elective NOS/s:

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

Optional NOS/s:

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
1.															
2.															
<b>Duration (in Hours) / Total Marks</b>															

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.	<b>Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	ITI (Fitter/Electrical/Mechanic Auto Electrical & Electronics/ Electronic Mechanic) with 5 years of industry and 1 year of training experience in Quality Or ITI (Fitter/Electrical/Mechanic Auto Electrical & Electronics/ Electronic Mechanic) with 6 years of industry experience in Quality Or Diploma (Electrical/Electronics/ Automobile) with 3 years of industry and 1 year of training experience in Quality Or Diploma (Electrical/Electronics/ Automobile) with 4 years of industry experience in Quality
2.	<b>Master Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	B.Tech (Mechanical/Electrical/Automobile) with 3 years of industry and 1 year of training experience in Quality
3.	<b>Tools and Equipment Required for Training</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If “Yes”, details to be provided in Annexure)
4.	<b>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</b>	

Section 4: Assessment Related

1.	<b>Assessor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	ITI (Fitter/Electrical/Mechanic Auto Electrical & Electronics/ Electronic Mechanic) with 6 years of industry and 1 year of training experience in Quality Or ITI (Fitter/Electrical/Mechanic Auto Electrical & Electronics/ Electronic Mechanic) with 7 years of industry experience in Quality Or Diploma (Electrical/Electronics/ Automobile) with 4 years of industry and 1 year of training experience in Quality Or Diploma (Electrical/Electronics/ Automobile) with 5 years of industry experience in Quality
2.	<b>Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	NA
3.	<b>Lead Assessor’s/Proctor’s Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	NA
4.	<b>Assessment Mode (Specify the assessment mode)</b>	Blended
5.	<b>Tools and Equipment Required for Assessment</b>	<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.	<b>Latest Skill Gap Study (not older than 2 years) (Yes/No):</b> Yes
2.	<b>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):</b> Yes
3.	<b>Government /Industry initiatives/ requirement (Yes/No):</b> Yes
4.	<b>Number of Industry validation provided:</b>
5.	<b>Estimated nos. of persons to be trained and employed:</b> 500
6.	<b>Evidence of Concurrence/Consultation with Line Ministry/State Departments:</b> In progress If “No”, why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

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

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
<b>Professional Theoretical Knowledge/Process</b>	Inspect the EV parts, products and related processes by following the Standard Operating Principles to deliver high quality products to customers.	<ul style="list-style-type: none"> <li>Work under supervision for preparing for inspection process</li> <li>Inspect the EV parts, products and related processes at various stages of product life for the quality standards</li> <li>Prepare and maintain the inspection related documents</li> </ul>	3.5
<b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b>	Should have factual knowledge of: <ul style="list-style-type: none"> <li>QMS system guidelines followed in the organization such as IATF-16949</li> <li>how to check the calibration of measuring instruments, gauges etc.</li> </ul>	Factual knowledge of quality check process and use of quality tools.	3.5

	<ul style="list-style-type: none"> <li>• manufacturing process being followed for each product</li> <li>• inspection checkpoints for the EV parts, product and process</li> <li>• RCA (Root Cause Analysis) techniques</li> <li>• documentation required regarding quality inspection process</li> </ul>		
<b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b>	<p>Recall and demonstrate skill in routine and repetitive applications including:</p> <ul style="list-style-type: none"> <li>• Plan and organize the activities/ work allocated by supervisor and operator.</li> <li>• Organize all equipment and kits so that sorting is easy on a day to day basis.</li> <li>• Complete the job defined by the supervisor within the timelines and quality norms</li> </ul>	Recall and demonstrate practical skill, routine and repetitive in wide range of application, using appropriate rule and tool, using quality concepts.	3.5
<b>Broad Learning Outcomes/Core Skill</b>	<ul style="list-style-type: none"> <li>• Write basic level notes with minimum required clarity.</li> <li>• Read documents and notes.</li> <li>• Question operator/ supervisor in order to understand the nature of the problem.</li> <li>• With required clarity, note measurements, equipment panel readings for various process parameters</li> </ul>	Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment.	3.5
<b>Responsibility</b>	<ul style="list-style-type: none"> <li>• Work under supervision for preparing for inspection process</li> <li>• Inspect the automotive parts, products and related processes at various stages of product life</li> <li>• Prepare and maintain the inspection related documents</li> </ul>	The individual on the job is responsible for only own work	3.5

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment  
Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Surface Plate		2
2	Vernier Caliper		5
3	Micrometer (Inside/Outside)		5
4	Height Gauge		2
5	Dial Gauge with Stand	(6mm-24mm)	2
6	V-Block with Clamps	(6mm-24mm)	4
7	Screw Jack		4
8	Measuring Pin Box		1

9	Slip Gauge Box		1
10	Bore Gauge (External/Internal)		2
11	Air Gauge with Plugs		2
12	Centre Bench		2
13	Profile Gauge		1
14	Plug Gauges (Go/Nogo)		5
15	Taper Gauge (Go/Nogo)		2
16	Surface Roughness Tester		1
17	Profile Protector		1
18	Bevel Protector		1
19	Sine Bar		1
20	Hardness Tester		1
21	Standard Mandrel (Dia 15/20 MM)		1
22	EV sample parts and systems		1

**Classroom Aids**

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Projector
3. Computer/Laptop
4. Chairs
5. Tables
6. Whiteboard marker

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	Hero Moto Corp						
2	Sansera Engineering Pvt. Ltd.						
3	Rico Auto Industries Ltd.						
4	Dynamic India Equipment						
5	Alicon Castalloy Ltd.						
6	Shiv Engineering Industries						
7	Bharadwaj Engineering Services						
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates	Women	People with Disability
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	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2023-24	500	350	200	140	50	35
2024-25	1000	700	400	280	100	70
2025-26	1500	1050	600	420	150	105

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: 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	<input checked="" type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	<ul style="list-style-type: none"> <li>• Books/ e-books</li> <li>• Presentations</li> <li>• Reference Material</li> <li>• Audio / Video Modules</li> </ul>	40:60
2	<input checked="" type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	<ul style="list-style-type: none"> <li>• Self-Learning Videos</li> <li>• Broadcasts</li> <li>• Mobile Learning</li> <li>• Curated Digital content</li> </ul>	40:60
3	<input checked="" type="checkbox"/> Showing Practical Demonstrations to the learners	<ul style="list-style-type: none"> <li>• Video Content</li> <li>• E-Resource library</li> <li>• AR/ VR/ XR</li> </ul>	40:60
4	<input checked="" type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	<ul style="list-style-type: none"> <li>• Training tools (tools list attached)</li> <li>• Video Play</li> <li>• Presentations</li> </ul>	40:60
5	<input checked="" type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	<ul style="list-style-type: none"> <li>• Online Question Bank</li> <li>• Mobile Quick test app</li> <li>• MCQ based tests</li> </ul>	40:60
6	<input checked="" type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	<ul style="list-style-type: none"> <li>• Assessment engine for Essays</li> <li>• Up-loadable file examinations</li> <li>• Mock test sessions</li> </ul>	40:60
7	<input checked="" type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	<ul style="list-style-type: none"> <li>• Online tests</li> <li>• Offline assessments</li> </ul>	40:60

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
ASC/N9803 – Organize work and resources (Manufacturing)	<i>Maintain safe and secure working environment</i>	11	5	-	7
	PC1. identify hazardous activities and the possible causes of risks or accidents in the workplace	2	1	-	2
	PC2. follow safe working practices while dealing with hazards to ensure safety of self and others	2	-	-	1
	PC3. carry out routine check of the machine for identifying potential hazards	2	1	-	1
	PC4. use appropriate protective clothing/equipment for specific tasks and work	2	1	-	1
	PC5. follow safety hazards and preventive techniques during fire drill	2	1	-	1
	PC6. report any identified breaches in health, safety and security policies and procedures to the designated person	1	1	-	1
	<i>Health and hygiene</i>	7	5	-	2
	PC7. ensure workstation and equipment are regularly clean and sanitized	2	2	-	1
	PC8. clean hands with soap, alcohol-based sanitizer regularly	1	1	-	1
	PC9. avoid contact with ill people and self-isolate in a similar situation	1	-	-	-
	PC10. wear and dispose PPEs regularly and appropriately	1	-	-	-
	PC11. report advanced hygiene and sanitation issues to appropriate authority	1	1	-	-
	PC12. follow stress and anxiety management techniques	1	1	-	-
	<i>Perform work as per quality standards</i>	5	3	-	2
	PC13. ensure that work is accomplished as per the requirements within the specified timeline	2	2	-	1
	PC14. ensure team goals are given preference over individual goals	3	1	-	1
	<i>Effective waste management practices</i>	15	10	-	4
	PC15. follow the fundamentals of 5S for waste management	3	2	-	1
	PC16. segregate waste into different categories	2	1	-	-
	PC17. follow processes specified for disposal of hazardous waste	2	2	-	1
	PC18. identify recyclable, non-recyclable and hazardous waste	4	2	-	1
	PC19. dispose non-recyclable, recyclable and reusable waste appropriately at identified location	4	3	-	1
<i>Material/energy conservation practices</i>	12	7	-	5	
PC20. identify ways to optimize usage of material in various tasks/activities/processes	2	1	-	1	
PC21. check for spills/leakages in various tasks/ activities/ processes	2	1	-	1	
PC22. plug spills/leakages and escalate to appropriate authority if unable to rectify	2	1	-	-	
PC23. check if the equipment/machine is functioning normally before commencing work and rectify wherever required	2	2	-	1	

	<b>PC24.</b> report malfunctioning (fumes/ sparks/ emission/ vibration/noise) and lapse in maintenance of equipment	2	1	-	1
	<b>PC25.</b> ensure electrical equipment and appliances are properly connected and turned off when not in use	2	1	-	1
	<b>Total Marks</b>	<b>50</b>	<b>30</b>	<b>-</b>	<b>20</b>
<b>ASC/N6313 – Inspect and maintain the electric vehicle (EV) parts and process quality and implement corrective actions</b>	<i>Preparing for inspection process</i>	<b>7</b>	<b>8</b>	<b>-</b>	<b>4</b>
	<b>PC1.</b> interpret the inspection check sheet and coordinate with the superior for confirming inspection tasks and quality check criteria of parts and processes involved in manufacturing of EV based on the defined standards	2	2	-	2
	<b>PC2.</b> identify and arrange testing equipment, measuring instruments, gauges, parts etc. required during the quality inspection process	3	2	-	1
	<b>PC3.</b> ensure that tools, gauges and measuring instruments to be used for inspection process are calibrated	2	4	-	1
	<i>Perform inspection process</i>	<b>14</b>	<b>30</b>	<b>-</b>	<b>11</b>
	<b>PC4.</b> follow safety practices recommended by organisation during quality inspection process	-	4	-	2
	<b>PC5.</b> conduct the visual inspection of EV parts or products for any scratches, dents, damages, packing etc. as per the norms and quality standards	-	4	-	1
	<b>PC6.</b> conduct the dimensional and functional check of EV parts or products by using inspection and measuring instrument and gauges such as vernier caliper, bore gauge, Go/NOGO gauge, micrometer etc.	-	2	-	1
	<b>PC7.</b> judge the part or product through a reference for feel, touch, sound, smell, etc. if the measurement is not possible	-	2	-	2
	<b>PC8.</b> maintain and preserve the tested samples to track the inspection history of tested EV parts or products and use it as defect/limit samples	2	2	2	2
	<b>PC9.</b> ensure that the sticker/number/label is placed on the inspected automotive part or product	-	2	-	-
	<b>PC10.</b> conduct inspection of EV manufacturing related processes to verify the process control items by using pressure gauge, temperature gauge, voltmeter/ ammeter etc.	-	4	-	1
	<b>PC11.</b> use Statistical Process Control (SPC) to measure and control the quality during the EV manufacturing process	2	2	-	-
	<b>PC12.</b> prepare first-off inspection report by referring to process inspection standard/process parameter sheet/control plan	2	2	-	-
	<b>PC13.</b> record the observations of the inspection and update the reports such as inspection report, charts in graphical pattern and other documents, manually or electronically as per the SOP	4	4	-	2
<b>PC14.</b> raise a scrap note and ensure that scrapped part or product in the scrap yard is disposed-off as per the organisational specified procedure	4	2	-	-	
<i>Co-ordinate with the team, and line in charge/supervisor</i>	<b>9</b>	<b>12</b>	<b>-</b>	<b>5</b>	
<b>PC15.</b> work as a CFT member of the team formed for problem solving and corrective actions pertaining to the EV products handled	1	2	-	1	

	PC16. collect data related to the problems identified during inspection process, analyse it with the team and identify the corrective actions for clearing the discrepancies	2	2	-	-
	PC17. coordinate with the respective process line leader/supervisor and give suggestions to seniors for appropriate action based on findings of the inspection report of EV manufacturing process	-	2	-	-
	PC18. implement corrective action for discrepancies identified in the inspection report	1	2	-	1
	PC19. coordinate with the team and identify opportunities for improvements in productivity, quality, cost, safety and morale in the manufacturing of EV	1	2	-	1
	PC20. verify the daily check items for e.g. battery functioning, fixture condition etc.	4	2	-	2
	<b>Total Marks</b>	<b>30</b>	<b>50</b>	<b>-</b>	<b>20</b>
<b>DGT/VSQ/N0102 - Employability Skills (60 hours)</b>	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. identify employability skills required for jobs in various industries	-	-	-	-
	PC2. identify and explore learning and employability portals	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC3. 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.	-	-	-	-
	PC4. follow environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	2	4	-	-
	PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-
	PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
	<i>Basic English Skills</i>	2	3	-	-
	PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
	PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
	PC9. write short messages, notes, letters, e-mail etc. in English	-	-	-	-
	<i>Career Development &amp; Goal Setting</i>	1	2	-	-
	PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-	
<i>Communication Skills</i>	2	2	-	-	
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-	
PC13. work collaboratively with others in a team	-	-	-	-	
<i>Diversity &amp; Inclusion</i>	1	2	-	-	
PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-	

PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	<b>2</b>	<b>3</b>	-	-
PC16. select financial institutions, products and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	<b>3</b>	<b>4</b>	-	-
PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21. use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22. use basic features of word processor, spreadsheets, and presentations	-	-	-	-
<i>Entrepreneurship</i>	<b>2</b>	<b>3</b>	-	-
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	<b>1</b>	<b>2</b>	-	-
PC26. identify different types of customers	-	-	-	-
PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-
PC28. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship &amp; Jobs</i>	<b>2</b>	<b>3</b>	-	-
PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC31. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
<b>Total Marks</b>	<b>20</b>	<b>30</b>	-	-
<b>Grand Total</b>	<b>100</b>	<b>110</b>		<b>40</b>

### **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 assigned to the assessment agencies for conducting the assessment on SDMS/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:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- 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.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the number of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME)
- Question papers created by the SME verified by the other subject Matter Experts
- Questions are mapped with NOS and PC
- Question papers are prepared considering that level 1 to 3 are for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
- Assessor must be ToA certified & trainer must be ToT Certified
- Assessment agency must follow the assessment guidelines to conduct the assessment

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
- Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
- Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos

5. Method of verification or validation:

- Surprise visit to the assessment location
- Random audit of the batch
- Random audit of any candidate

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored
- Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
- Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

**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
<b>National Occupational Standards (NOS)</b>	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.
<b>Qualification</b>	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
<b>Qualification File</b>	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.
<b>Sector</b>	A grouping of professional activities on the basis of their main economic function, product, service or technology.
<b>Long Term Training</b>	Long-term skilling means any vocational training program undertaken for a year and above. <a href="https://ncvet.gov.in/sites/default/files/NCVET.pdf">https://ncvet.gov.in/sites/default/files/NCVET.pdf</a>