QUALIFICATION FILE

Autobody Repair

☒ 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: 4.5

Submitted By:

Automotive Skills Development Council

E-113, First Floor, Okhla Industrial Estate

Phase- III,

New Delhi-110020

Table of Contents

Section 1: Basic Details

<table>
<tr><td>1.</td><td>Qualification Name</td><td colspan="2">Autobody Repair</td></tr>
<tr><td>2.</td><td>Sector/s</td><td colspan="2">Automotive</td></tr>
<tr><td>3.</td><td>Type of Qualification: ☒ New ☒ Revised ☐ Has Electives/Options
☐OEM</td><td>NQR Code & version of existing/previous qualification: (change to previous, once approved)</td><td>Qualification Name of existing/previous version:
Autobody Repair</td></tr>
<tr><td>4.</td><td>a. OEM Name
b. Qualification Name
(Wherever applicable)</td><td colspan="2">Autobody Repair</td></tr>
<tr><td>5.</td><td>National Qualification Register (NQR) Code &Version
(Will be issued after NSQC approval)</td><td>QG-4.5-AU-01831-2024-V1-ASDC</td><td>6. NCrF/NSQF Level: 4.5</td></tr>
<tr><td>7.</td><td>Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)</td><td colspan="2">Certificate</td></tr>
<tr><td>8.</td><td>Brief Description of the Qualification</td><td colspan="2">An Autobody Repair is responsible for replacing, removing or re installing autobody parts by following the standards of the organization.</td></tr>
<tr><td>9.</td><td>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</td><td colspan="2">a. Entry Qualification & Relevant Experience: No formal education required.
b. Age: Below 22 Years of age.</td></tr>
<tr><td>10.</td><td>Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))</td><td>16</td><td>11. Common Cost Norm Category (I/II/III) (wherever applicable):</td></tr>
<tr><td>12.</td><td>Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)</td><td colspan="2">NA</td></tr>
<tr><td>13.</td><td>Training Duration by Modes of Training Delivery
(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</td><td colspan="2">☐Offline ☐Online ☒Blended
<table>
<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>
<tr><td>Classroom (offline)</td><td>84:00</td><td>84:00</td><td>342:00</td><td>00:00</td><td>510:00</td></tr>
<tr><td>Online</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
(Refer Blended Learning Annexure for details)</td></tr>
</table>

14.	**Aligned to NCO/ISCO Code/s** *(if no code is available mention the same)*		
15.	**Progression path after attaining the qualification** *(Please show Professional and Academic progression)*		
16.	**Other Indian languages in which the Qualification & Model Curriculum are being submitted**		
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**	The inclusion of women in the workplace is important as there is an increase in the number of educated women. Despite progress in some areas, women still face significant challenges and barriers to their full participation in the workforce. This can be addressed by formulating policy measures on skilling, job creation and support services. To increase the proportion of women in the workforce, various support measures like childcare facilities, close proximity to the workplace, safe transportation, gender acceleration plans and return to work (allowing women to re-join the workforce after motherhood) should be provided. Organisations should provide flexible work arrangements like part-time or remote work options. This not only helps the organisation to retain talented women employees, but it also helps women to balance work and family responsibilities.	
20.	**Are Greening/ Environment Sustainability Aspects Covered** *(Specify the NOS/Module which covers it)*	**☒ Yes ☐ No** Work organization and management, communication, and interpersonal skills	
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:** Automotive Skills Development Council **E-mail ID:** ceo@asdc.org.in **Contact Number:** 011-42599800 **Website:** https://www.asdc.org.in/	
23.	**Final Approval Date by NSQC: 06-02-2024**	**24. Validity Duration: 2 Years**	**25. Next Review Date: 06-02-2026**

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 *(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.	Work organization and management, communication, and interpersonal skills	ASC/N9823	Non-Core	4.5	1	6	6	18	0	30	50	30	0	20	100	8
2.	Diagnosis and correction preparation	ASC/N1471	Core	4.5	3	12	12	66	0	90	20	60	0	20	100	15
3.	Replace necessary welding on parts/panels	ASC/N1472	Core	4.5	5	30	30	90	0	150	60	100	0	40	200	32
4.	Remove, re-install or replace, and align exterior and/or interior parts and panels	ASC/N1473	Core	4.5	3	12	12	66	0	90	30	60	0	20	110	12
5.	Operate and/or manipulate any tools or equipment necessary to perform autobody repairs	ASC/N1474	Core	4.5	3	12	12	66	0	90	40	60	0	20	120	14
6.	Cosmetic repair of plastic non-structural components	ASC/N1475	Core	4.5	2	12	12	36	0	60	40	60	0	20	120	14
Duration (in Hours) / Total Marks					**17**	**84**	**84**	**342**	**0**	**510**	**240**	**370**	**0**	**140**	**650**	**95**

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: 70 % *(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)*	B.E/B.Tech (Mechanical/Automobile/ Electrical/ Electronics) with 4 years of industry and 1 year of training experience in Mechanical/ Automobile/ Electronics/ Instrumentation Or B.E/B.Tech (Mechanical/Automobile/ Electrical/ Electronics) with 5 years of industry experience in Mechanical/ Automobile/ Electronics/ Instrumentation Or Diploma (Mechanical/Automobile/ Electrical/ Electronics) with 3 years of industry and 1 year of training experience in Mechanical/ Automobile/ Electronics/ Instrumentation Or Diploma (Mechanical/Automobile/ Electrical/ Electronics) with 4 years of industry experience in Mechanical/ Automobile/ Electronics/ Instrumentation Or M.E/M.Tech (Mechanical/Automobile/ Electrical/ Electronics) with 2 years of industry and 1 year of training experience in Mechanical/ Automobile/ Electronics/ Instrumentation Or M.E/M.Tech (Mechanical/Automobile/ Electrical/ Electronics) with 3 years of industry experience in Mechanical/ Automobile/ Electronics/ Instrumentation
2.	**Master Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	M.E/M.Tech (Mechanical/Automobile/ Electrical/ Electronics) with 4 years of industry and 1 year of training experience in Mechanical/ Automobile/ Electronics/ Instrumentation
3.	**Tools and Equipment Required for Training**	☒Yes ☐No (*If "Yes", details to be provided in Annexure)*
4.	**In Case of Revised Qualification, Details of Any Upskilling Required for Trainer**	NA

Section 4: Assessment Related

1.	**Assessor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	Any Recognized certification with proven industrial and/or practical experience in the relevant skill (minimum 10 years). OR

		Have worked as a Jury member/expert in skill competitions and other competitions of similar nature at regional/national levels OR Trained/mentored competitors for IndiaSkills/ WorldSkills competitions (national/ international). **OR** As any change per NCVET guidelines.
2.	**Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	As per India Skills/ WorldSkills Guidelines
3.	**Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	As per India Skills/World Skills Guidelines
4.	**Assessment Mode** *(Specify the assessment mode)*	Blended
5.	**Tools and Equipment Required for Assessment**	☒ Same as for training ☐ Yes ☐ 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):**
2.	**Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):**
3.	**Government /Industry initiatives/ requirement (Yes/No):**
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:** If "No", why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	**Annexure:** NCrF/NSQF level justification based on NCrF level/NSQF descriptors *(Mandatory)*	*Attached*

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

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	**Specialized knowledge** ● Current occupational health and safety regulations relating to the autobody repair industry ● Correct use and maintenance of all personal protective equipment and clothing ● All recommendations and information published by the suppliers or manufacturers of products and equipment ● The process for maintaining and using specialized equipment ● Terminology that relates to body repair processes ● Terminology that relates to the car body structure and its construction ● The importance of the correct handling and disposal of environmentally harmful products ● The basis for communication and interpersonal skills ● The potential harmful impact that repair products and processes can have upon the environment ● The range and purposes of documentation, including written and technical drawings including schematic and wiring diagrams, in both paper based and electronic forms ● The technical language associated with the occupation ● The industry standards required for inspection and fault reporting in oral, written, and electronic formats ● The required standards for customer service and care ● The safety recommendations associated with mounting and pulling damaged vehicle bodies	● An Autobody Repair should have a proper knowledge of range and purposes of documentation, including written and technical drawings, Characteristics of body construction relating to strength and collision protection, methods of correcting forces, occupational health and safety requirements, organization's policy, documentation procedure, SOP and standards of management. ● Hence Level 4	4.5

	● Manufacturers' data and how this is translated to the vehicle body ● The principles surrounding the construction of vehicle bodies,including light passenger, light commercial and commercial ● Characteristics of body construction relating to strength and collision protection ● Characteristics and purpose of structural and non-structural panels ● The importance of positional correctness to retain vehicle safety and performance ● The role played by direction and weight of damage force as well as the impact at the point of collision ● How position, shape and strength of individual body assemblies affect the paths taken by collision forces ● Methods of correcting forces including vectors of force Principles of body jig measuring systems including bracket and computerized measuring systems ● Principles of pulling systems including fixed post, swinging arm and vector systems ● The importance of following manufacturers' recommended repair methods and warranty procedures ● Suitable methods of identifying fixing types weld positions and weld types ● Methods of safely and cleanly removing fastenings to free amaged panels for replacement ● Use, setting and maintenance of pneumatic tools used for panel removal and replacement ● Principles of operation and adjustment of welding systems used for panel replacement including MAGS, Resistance spot and MIG brazing ● Processes and procedures for preparing replacement panel work and panel fixing positions ● The importance of realigning structural parts and assemblies to reinstate vehicle integrity and driving characteristics		

	● Principles of reinstating suitable corrosion protection to replaced parts ● The importance of working within agreed time schedules ● The principles underpinning the use of any of the above fastening systems ● The types, availability and varieties of the above systems ● The range of tools used to carry out remove and replace operations and their safe/correct uses ● The range of methods for removing and replacing individual panels and parts methods used to align replaced parts and panels to reinstate manufacturers original settings ● The range, selection and assembly of hydraulic pull/push equipment ● The characteristics of common metals such as low carbon steel, high strength steels (HSS), ultra-high strength steels (UHSS) ● The direct effects of correct positioning, direction of push/pull etc. ● The principles behind the operation and maintenance of hydraulic push/pull equipment ● The range of set ups, ram ends and their purposes ● The safety recommendations placed around correct repairs of nonstructural cosmetic panels, e.g. bumpers, headlights, plastic outer trims ● The operation of the range of plastic panels and bumpers which may include parking sensors and ADAS systems ● Manufacturers' removal, replacement, repair, and testing procedures ● Health and safety procedures around safe repairs directly from the OEM guidance		
Professional and Technical Skills/ Expertise/ Professional Knowledge	**Specialized skills** ● Read and interpret organisational SOPs for account management ● Follow organisation's code of conduct and business etiquette ● Identify immediate or temporary solutions to resolve delays in completing work	● An Autobody Repair needs to have basic communication skills and follow established service standards, Communication etiquette, etc. of the organization.	4.5

	● Solve problem when required ● Resolve conflicts related to confidentiality and privacy by reporting the issue in time ● Fill in relevant forms, formats and checklist accurately ● read instructions/guidelines/procedures ● Listen effectively and orally communicate information ● Ask for clarification and advice from the concerned person ● Maintain positive and effective relationships with colleagues and customers ● Evaluate the possible solution(s) to the problem ● Deliver consistent and reliable service to customers ● Complete written work with attention to detail ● Check that the work meets customer requirements ● read the service circulars/sign boards placed in the workshop with respect to the overall ● Understand the need of the customer ● Analyse, evaluate and apply the information gathered from observation, experience, ● Reasoning or communication to act efficiently	● Hence Level 4	
Employment Readiness & Entrepreneurship **Skills & Mind-set/Professional Skill**	**Team readiness, self-entrepreneurship readiness** ● Read and write different types of documents/instructions/correspondence ● Communicate effectively using appropriate language in formal and informal settings ● Behave politely and appropriately with all ● How to work in a virtual mode ● Perform calculations efficiently ● Solve problems effectively ● Pay attention to details ● Manage time efficiently ● Maintain hygiene and sanitization to avoid infection	● An Autobody Repair should have good oral and writtem communication skills, advanced literacy and numeracy skills, organisation and time management skills, good understanding of social, political and work environment, etc.	4.5

Broad Learning Outcomes/Core Skill	**Specialized/ complex jobs/tasks** ● Work organization and management, communication, and interpersonal skills ● Diagnosis and correction preparation ● Replace necessary welding on parts/panels ● Remove, re-install or replace, and align exterior and/or interior parts and panels ● Operate and/or manipulate any tools or equipment necessary to perform autobody repairs ● Cosmetic repair of plastic non-structural components	● An Autobody Repair is responsible for diagnosising and correctioning preparation, replacing necessary welding on parts/panels, removing, re-installing or replacing, and aligning exterior and/or interior parts and panels. This person works in familiar, predictable, routine, situation at workplace. ● Hence Level 4	4.5
Responsibility	**Self and team responsibility – Sr. Technician or Master Technician** ● Maintain safe and secure working environment ● Perform work as per quality standards ● Health and hygiene ● Follow the procedure to remove, re-install or replace, and align exterior and interior parts and panels ● Carry out necessary steps for replacing welding on parts/panels ● Perfrom steps to cosmetic repair of plastic non-structural components	● An Autobody Repair is responsible for replacing, removing or re installing autobody parts by following the standards of the organization. This person is responsible for their own work. ● Hence Level 4	4.5

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.	Personal Protection Equipment: Safety glasses, Head protection, Rubber gloves, Safety footwear, Warning signs and tapes, Fire extinguisher, First aid kit	Standard	01
2.	Diagnostic equipmentample	Standard	01
3.	Vehicle	Standard	01

4.	Welded panels (rails, rear quarter panels, pillars, structural body panels etc.)	Standard	01
5.	Autobody panels (hoods, fenders, doors etc.)	Standard	01
6.	Any other as per requirement of World Skills occupation Standards	Standard	Standard

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Flip Chart
3. Duster
4. Projector
5. Projector screen
6. Computer/ Laptop with charger
7. Power Point Presentation
8. 2.1 Laptop External Speakers
9. Training kit (Trainer guide, Presentations)
10. Participant Handbook and Related Standard Operating Procedures
11. Markers
12. Chalk

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.							
2.							

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
2023-24	100	150	50	50	50	35
2024-25	150	200	75	75	100	75
2025-26	200	250	100	100	100	75

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. World Skills
2. India Skills

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:

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	● Books/ e-books ● Presentations ● Reference Material ● Audio / Video Modules	100:0
2	□Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	● Self-Learning Videos ● Broadcasts ● Mobile Learning ● Curated Digital content	100:0
3	□Showing Practical Demonstrations to the learners	● Video Content ● E-Resource library ● AR/ VR/ XR	100:0
4	□Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	● Training tools (tools list attached) ● Video Play ● Presentations	100:0
5	□Tutorials/ Assignments/ Drill/ Practice	● Online Question Bank ● Mobile Quick test app ● MCQ based tests	100:0
6	□Proctored Monitoring/ Assessment/ Evaluation/ Examinations	● Assessment engine for Essays ● Up-loadable file examinations ● Mock test sessions	100:0
7	□On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	● Online tests ● Offline assessments	100:0

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
Work organization and management, communication, and interpersonal skills	PC1. Apply occupational health and safety regulations and best practice to the autobody repair industry	-	-	-	-
	PC2. Use correctly and maintain personal protective clothing and equipment	-	-	-	-
	PC3. Set-up, use, adjust, and maintain all specialist repair equipment, promote health and safety practices in the workplace, apply all recommendations and guidance provided by suppliers and manufacturers of equipment or products	-	-	-	-
	PC4. Adhere to MSDS (manufacturers safety data sheets)	-	-	-	-
	PC5. Adopt correct procedures for handling and disposing of environmentally harmful products	-	-	-	-
	PC6. Select and use products that are environmentally acceptable	-	-	-	-
	PC7. Dispose of environmentally harmful products in a safe and responsible way	-	-	-	-
	PC8. Exchange information and engage with others in the workplace	-	-	-	-
	PC9. Engage with customers and suppliers as provider and customer	-	-	-	-
	Total Marks	**50**	**30**	**0**	**20**
Diagnosis and correction preparation					
	PC1. Mount vehicles on anchoring equipment	-	-	-	-
	PC2. Interpret manufacturers' specifications relating to vehicles	-	-	-	-
	PC3. Diagnose the extent of vehicle damage and rectify the damage with reference to vehicle manufacturers' recommendations	-	-	-	-
	PC4. Determine the direction of damaging forces or impacts	-	-	-	-
	PC5. Determine the extent of damaging forces or impacts	-	-	-	-
	PC6. Determine structural damage using appropriate diagnostic equipment	-	-	-	-
	PC7. Identify the correct and appropriate methods for the correction of vehicle body damage	-	-	-	-

	PC8. Reinstate correct vehicle body alignment	-	-	-	-
	PC9. 'Rough out' damaged sections or panels prior to removal for replacement	-	-	-	-
	PC10. Straighten and align damaged structural components and reinstate their dimensional accuracy	-	-	-	-
	PC11. Diagnose frame damage using any of: Toe in gauge, Self-alignment gauge, Tram gauge	-	-	-	-
	PC12. Vehicle manuals etc.	-	-	-	-
	PC13. Repair and align full frame and suspension damage	-	-	-	-
	Total Marks	**20**	**60**	**0**	**20**
Replace necessary welding on parts/panelsrespect guests' privacy					
	PC1. Repair or replace structural parts correctly including composites (GRP, carbon)	-	-	-	-
	PC2. Remove structural panels with minimal disturbance to surrounding panels and prepare surfaces appropriately to receive new parts	-	-	-	-
	PC3. Prepare replacement parts to ensure correct fit up and alignment	-	-	-	-
	PC4. Remove welded panels (rails, rear quarter panels, pillars, structural body panels etc.)	-	-	-	-
	PC5. Replace major welded panels or panel assemblies at manufacturers' seam positions	-	-	-	-
	PC6. Carry out structural part replacement using sectioning methods and procedures	-	-	-	-
	PC7. Use correct welding procedures when replacing structural parts, taking into consideration materials being joined, the identity of parts and unforeseen hazards such as brake, fuel and electrical lines	-	-	-	-
	PC8. Replace structural panels using any of the following jointing methods: MIG welding, MIG brazing, Riveting and bonding	-	-	-	-
	PC9. Carry out welding procedures necessary to complete the repair (MAGS): Resistance spot welding, MIG Brazing	-	-	-	-
	PC10. Dress weld seams using sanding/grinding operations	-	-	-	-
	Total Marks	**60**	**100**	**0**	**40**

Remove, re-install or replace, and align exterior and/or interior parts and panels	PC1. Remove and re-install or attach parts and/or body panels (hoods, fenders, doors etc.) using any of the following methods: Screwed, Riveted, Bolted, Clipped, Bonded	-	-	-	-
	PC2. Tag removed items for replacement and reassembly	-	-	-	-
	PC3. Re-align replaced parts to manufacturers' given tolerances where available for panel alignment and/or torque settings	-	-	-	-
	PC4. Remove, replace and adjust exterior/interior trims and/or other part necessary to complete repairs	-	-	-	-
	Total Marks	**30**	**60**	**0**	**20**
Operate and/or manipulate any tools or equipment necessary to perform autobody repairs					
	PC1. Select, assemble and correctly operate hydraulic push/pulling equipment such as bench mounted, rack or Porto-Power etc.	-	-	-	-
	PC2. Manipulate body hammers, spoons, pick and pry bars, body files and any other tools used in the straightening process	-	-	-	-
	PC3. Safely and efficiently operate the range of pneumatic tools used in the repair process (e.g. air hammer, disc grinder, file board, shears, adhesive/sealer and rivet guns to include self-piercing riveters etc.)	-	-	-	-
	PC4. Safely and efficiently operate electric tools (e.g. welders, pulling tools, power tools)	-	-	-	-
	PC5. Use a push set up to execute a pull direction	-	-	-	-
	PC6. Prepare the push base to prevent induced damage	-	-	-	-
	PC7. Operate a system tester – OBD diagnostic tool	-	-	-	-
	Total Marks	**40**	**60**	**0**	**20**
Cosmetic repair of plastic non-structural components					
	PC1. Remove, replace, repair plastic non-structural components	-	-	-	-
	PC2. Use OEM repair methods for both manufacturers and product suppliers	-	-	-	-
	PC3. Perform repairs needed to complete safe repairs to components	-	-	-	-
	PC4. Manually test sensors or systems to a "road safe" standard before handing vehicles back to customers	-	-	-	-
	Total Marks	**40**	**60**	**0**	**20**
Grand Total		**240**	**370**	**-**	**140**

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 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 Autobody Repair) will be assessed separately.
2. The candidate must score 70% 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: 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
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
PPE	Personal Protective Equipment
HACCP	Hazard Analysis and Critical Control Points
ISO	International Standards Organization
OH&S	Occupational Health and Safety

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