



QUALIFICATION FILE

Car Painting

Short Term Training (STT) Long Term Training (LT) 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, Okhla Industrial Estate

Phase- III,

New Delhi-110020

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Section 1: Basic Details

1. Qualification Name	Car Painting																						
2. Sector/s	Automotive																						
3. Type of Qualification: <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: (change to previous, once approved)		Qualification Name of existing/previous version:																				
4. a. OEM Name b. Qualification Name (Wherever applicable)	b. Car Painting																						
5. National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval)	QG-4.5-AU-01833-2024-V1-ASDC		6. NCrF/NSQF Level: 4.5																				
7. Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exists also & provide details in annexure)	Certificate																						
8. Brief Description of the Qualification	Car painters (refinishers) are responsible for reinstating the pre-accident paint finish to cars after the structure and/or the panels have been repaired or replaced. They may also be asked to completely repaint a whole vehicle either to change its colour or reinstate its newness. Car painters may also become involved in matching colours to an original colour no longer available or to colours that prove difficult to match. A car painter must match the colour, shade, and texture of the adjoining panels that are not being painted.																						
9. Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: No formal education required. b. Age: Below 22 Years of age.																						
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): I																				
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)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Training Delivery Modes</th> <th style="text-align: center;">Theory (Hours)</th> <th style="text-align: center;">Practical (Hours)</th> <th style="text-align: center;">OJT Mandator y (Hours)</th> <th style="text-align: center;">OJT Recommended (Hours)</th> <th style="text-align: center;">Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td style="text-align: center;">84:00</td> <td style="text-align: center;">84:00</td> <td style="text-align: center;">342:00</td> <td></td> <td style="text-align: center;">510:00</td> </tr> <tr> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandator y (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	84:00	84:00	342:00		510:00	Online					
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Online																							

		(Refer Blended Learning Annexure for details)
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/7132.0203
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	Painting lead technician Painting master technician
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	NA
17.	Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:
18.	Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes", specify applicable type of Disability:
19.	How Participation of Women will be Encouraged	No gender sensitization
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting ABs)	Name: Mr. Arindam Lahiri Email: ceo@asdc.org.in Website: https://www.asdc.org.in/ Contact No.: 011-42599800
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	ASC/N9824	Non-core	4.5	1	6	6	18		30	15	25		10	50	5
2	Communication and interpersonal skills	ASC/N9825	Non-core	4.5	1	6	6	18		30	15	25		10	50	5
3	Preparation for painting	ASC/N3315	Core	4.5	2	12	12	36		60	15	25		10	50	14
4	Application of adhesion promoters and primers	ASC/N3316	Core	4.5	1	6	6	18		30	15	25		10	50	11
5	Base coat and ground coat application	ASC/N3317	Core	4.5	3	12	12	66		90	30	50		20	100	16
6	Clear coat application	ASC/N3318	Core	4.5	3	12	12	66		90	30	50		20	100	17
7	Colour evaluation and colour adjustment	ASC/N3319	Core	4.5	2	12	12	36		60	30	50		20	100	11
8	Design, layout, and measurement	ASC/N3320	Core	4.5	3	12	12	66		90	15	25		10	50	13
9	Remove minor damage and defects from painted and non-Painted surfaces	ASC/N3321	Core	4.5	1	6	6	18		30	30	50		20	100	8
Duration (in Hours) / Total Marks					17	84	84	342	0	5100	195	325	0	130	650	100

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQ F Level	Credit s 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/NSQ F Level	Credit s 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) (as per NCVET guidelines)	ITI (Turner/Fitter/Electrician) with 5 years of industry and 1 year of training experience in Turner/Fitter/Electrician Or ITI (Turner/Fitter/Electrician) with 6 years of industry experience in Turner/Fitter/Electrician
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		<p>Or</p> <p>Diploma (Mechanical/Electrical/Automobile) with 3 years of industry and 1 year of training experience in Mechanical/Electrical/Automobile</p> <p>Or</p> <p>Diploma (Mechanical/Electrical/Automobile) with 4 years of industry experience in Mechanical/Electrical/ Automobile</p>
2.	Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	B.Tech (Mechanical/Electrical/Automobile) with 3 years of industry and 1 year of training experience in Mechanical/Electrical/Automobile
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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) (as per NCVET guidelines)	<p>Any Recognized certification with proven industrial and/or practical experience in the relevant skill (minimum 10 years).</p> <p>OR</p> <p>Have worked as a Jury member/expert in skill competitions and other competitions of similar nature at regional/national levels</p> <p>OR</p> <p>Trained/mentored competitors for IndiaSkills/ WorldSkills competitions (national/ international).</p> <p>OR</p> <p>As any change per NCVET guidelines.</p>
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	As per IndiaSkills/ WorldSkills guidelines
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	As per IndiaSkills/ WorldSkills guidelines
4.	Assessment Mode (Specify the assessment mode)	Blended
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input type="checkbox"/> 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: 500
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: In progress 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>)	Attached
2.	Annexure: List of tools and equipment relevant for qualification (<i>Mandatory, except in case of online course</i>)	Attached
3.	Annexure: Detailed Assessment Criteria (<i>Mandatory</i>)	Attached
4.	Annexure: Assessment Strategy (<i>Mandatory</i>)	Attached
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is "Blended Learning"</i>)	Filled
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	Filled
7.	Annexure: Acronym and Glossary (<i>Optional</i>)	
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	Attached
9.	Supporting Document: Career Progression (<i>Mandatory - Public view</i>)	Attached
10.	Supporting Document: Occupational Map (<i>Mandatory</i>)	Attached
11.	Supporting Document: Assessment SOP (<i>Mandatory</i>)	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	The individual on the job needs to use body treatment and painting apparatus and perform body treatment and painting activities to produce auto components.	The individual on the job is responsible for own work and learning. Work in painting work environment.	4.5
Professional and Technical Skills/ Expertise/ Professional Knowledge	The individual on the job needs to have factual knowledge of: <ul style="list-style-type: none"> • Body treatment and painting activities. • Different types of painting tools and material used in the process and their identification. • How to read engineering drawing and the output as defined in the drawing. • Quality check of produced component. 	Factual knowledge of body treatment and painting processes and use of different tools and materials required.	4.5
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Recall and demonstrate practical skill to routine and repetitive applications: <ul style="list-style-type: none"> • Paint shop activities. • Inspecting manufactures component. • Recognise a workplace problem or a potential problem and take action. 	Recall and demonstrate practical skill, routine and repetitive in wide range of application, using appropriate rule and tool, using quality concepts.	4.5
Broad Learning Outcomes/Core Skill	The user individual on the job needs to have written and oral communication skills like: <ul style="list-style-type: none"> • To draw basic level drawings and charts. • Read and interpret symbols given on equipment and work area. • Read work order/ engineering drawings, sketches. 	Language to communicate written or oral, with required clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment.	4.5
Responsibility	The individual on the job needs to know their own responsibility of conducting the paint shop activities. <ul style="list-style-type: none"> • Alongside this, interact with the maintenance team and material management team. 	The individual on the job is responsible for own work and fully responsible for other's work and learning.	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	Pre-treatment line consisting of degreasing phosphating & passivation facility	Standard	5 lines
2	All type of chemicals for pretreatment	20 Kg Each	20 KG
3	R.O & D.M Water	5000L	500 Litre
4	Painting booth (4'x6'x10') approx with water screen facility	Standard	1 No.
5	Paint Transfer Pump	Standard	1 No.
6	Spray Gun	Standard	2 No.
7	Hose For Spray Gun	20 M	20 No.
8	Pressure Gauges	Standard	10 No.
9	Paint Mixing Room	Standard	1 No.
10	Paints, Primers & Thinners	20L Each	20 Litre
11	Viscometer	Standard	1 No.
12	Stop Watch	Standard	1 No.
13	Stirrer	Standard	1 No.
14	Paint Container	Standard	5 No.
15	Sand Paper of Different Grades	Standard	20 No.
16	Masking Tapes	Standard	5 No.
17	Tool Kit	Standard	1 No.
18	Air Blow Gun	Standard	1 No.
19	Vacuum Machine	Standard	1 No.
20	Infrared Drier	Standard	1 No.
21	Paint Gun Cleaning System	Standard	1 No.
22	Paint Gun Stand	Standard	2 No.
23	Sealant Gun	Standard	1 No.
24	Paint Mixing Scale	Standard	8 No.
25	Digital Weighing Machine	Standard	1 No.
26	Tag Rag	Standard	10 No.
27	Hangers For Holding Components	Standard	20 No.

28	Painting Table	Standard	1 No.
29	Paint Simulator	Standard	1 No.
30	Defective Parts With (Dust, Dry Flow)	10 Each	10 No.
31	Samples Of Different Type of points i.e. Synthetic, Nc Parts & Pu Base Points	Standard	1 No.
32	Process Flow Charts Showing Pretreatment Details & Parameters	Standard	1 No.
33	Process Flow Charts Showing Painting Process & Parameters	Standard	1 No.
34	Baking Oven	Standard	1 No.
35	Inspection Booth With Sufficient Light (700 Lux)	Standard	1 No.
36	Paint Thickness Tester	Standard	1 No.
37	Pencil For Scratch Resistance Test	Standard	2 No.
38	Adhesion Tester with Tape (Cutter, Knife)	Standard	1 No.
39	Salt Spray Tester with chamber	Standard	1 No.
40	Lab Equipment Beakers/Pipette	Standard	10 No.
41	Conductivity Meter	Standard	1 No.
42	Fire Extinguisher	Standard	2 No.
43	First Aid Kit	Standard	1 No.
44	Safety Gloves (Leather)	Standard	30 No.
45	Ear Plugs	Standard	30 No.
46	Safety Shoes	Standard	30 No.
47	Goggles	Standard	30 No.
48	Booth Mask	Standard	30 No.
49	Nose Mask	Standard	30 No.
50	Cap For Head	Standard	30 No.
51	Any other as per the requirement of World Skills Occupation Standard	Standard	Standard

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							
2							
3							
4							
5							
6							
7							
8							
9							
10							

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	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"> Books/ e-books Presentations Reference Material Audio / Video Modules 	100:0
2	<input checked="" type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	<ul style="list-style-type: none"> Self-Learning Videos Broadcasts Mobile Learning Curated Digital content 	100:0
3	<input checked="" type="checkbox"/> Showing Practical Demonstrations to the learners	<ul style="list-style-type: none"> Video Content E-Resource library AR/ VR/ XR 	100:0
4	<input checked="" type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	<ul style="list-style-type: none"> Training tools (tools list attached) Video Play Presentations 	100:0
5	<input checked="" type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	<ul style="list-style-type: none"> Online Question Bank Mobile Quick test app MCQ based tests 	100:0
6	<input checked="" type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	<ul style="list-style-type: none"> Assessment engine for Essays Up-loadable file examinations Mock test sessions 	100:0
7	<input checked="" type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	<ul style="list-style-type: none"> 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	PC1. apply occupational Health, Safety, and Environmental regulations and best practice related to the car painting industry	2	3	-	1
	PC2. use correctly and maintain personal protective clothing and equipment	1	2	-	1
	PC3. set-up, use, adjust, and maintain all specialist application equipment	2	3	-	1
	PC4. set up, adjust, and use all specialist preparation and drying equipment	1	2	-	1
	PC5. promote health and safety in the workplace	1	2	-	1
	PC6. apply all recommendations and guidance provided by suppliers and manufacturers of equipment or products	1	2	-	1
	PC7. adhere to MSDS (Manufacturers Safety Data Sheets)	2	2	-	1
	PC8. adopt correct procedures for handling and disposal of environmentally harmful products	2	3	-	1
	PC9. only use products that are Volatile Organic Compound (VOC) compliant	1	2	-	1
	PC10. adapt materials to take account of the impact of the environment and climate on paints and products	1	2	-	1
	PC11. maintain clean spraying environment within paint areas	1	2	-	-
Total Marks		15	25	-	10
Communication and interpersonal skills	PC1. read, interpret, and extract technical data and instructions from workshop manuals in any available format	3	4	-	1
	PC2. communicate in the workplace by written and electronic means, using standard formats	2	4	-	2
	PC3. communicate in the workplace by oral, written, and electronic means to ensure clarity, effectiveness, and efficiency	3	5	-	2
	PC4. use a standard range of communication technologies	3	4	-	2
	PC5. complete reports and respond to issues and questions arising	2	4	-	1
	PC6. respond to customers' needs face to face and indirectly	2	4	-	2
	Total Marks	15	25	-	10

Preparation for painting	PC1. use appropriate cleaning products to remove contaminants	2	3	-	1
	PC2. prepare surfaces to be coated with appropriate abrasive products	2	3	-	1
	PC3. carry out minor panel repairs	2	4	-	2
	PC4. carry out final cleaning of surfaces prior to paint application	2	4	-	2
	PC5. remove dust from all areas to be refinished	2	3	-	1
	PC6. suitably remove contaminates such as glues, labels, and seam-sealers	3	5	-	2
	PC7. carry out masking procedures to protect surrounding areas	2	3	-	1
	Total Marks	15	25	-	10
Application of adhesion promoters and primers	PC1. apply suitable primers and or fillers to the substrate and appropriate for the process being used: Etch primers; Primer surfaces; Primer fillers; Plastic primers; UV primers.	3	5	-	2
	PC2. apply the correct procedures for sanding (flattening) primer fillers	3	5	-	2
	PC3. reinstate the corrosion protection of the panels being painted	2	4	-	2
	PC4. apply seam sealers	2	3	-	1
	PC5. follow the Original Engineering Manufacturer (OEM) or paint manufacturer's (Technical Data Sheet – TDS) recommendations	3	5	-	2
	PC6. measure out materials carefully to minimize environmental effects and cost implications	2	3	-	1
	Total Marks	15	25	-	10
Base coat and ground coat application	PC1. retrieve colour and application information from printed and electronic sources	3	5	-	2
	PC2. use appropriate equipment and technology to access colour formulations (computer based and photo spectrometer)	4	7	-	3
	PC3. use colour swatches/chips to identify the correct colour and shade and variant	3	5	-	2
	PC4. apply the electronic information to mix required colour and shade	3	5	-	2
	PC5. follow the correct procedure to spray out a test paint card and compare with the original standard, adjust as necessary	4	6	-	2
	PC6. mix and apply straight/solid colours, metallic, pearls, multi-stage effect colours and special effect colours	4	7	-	3
	PC7. apply base/ground coats to metal and non-metal parts	3	5	-	2
	PC8. follow the Original Engineering Manufacturer (OEM) or paint manufacturer's (Technical Data Sheet – TDS) recommendations	3	5	-	2

	PC9. measure materials to minimize the environmental and cost factors	3	5	-	2
	Total Marks	30	50	-	20
Clear coat application	PC1. identify, mix, and apply clear coats correctly	4	7	-	3
	PC2. adjust spray gun to achieve the correct outlet pressure, fan width and fan shape	4	6	-	2
	PC3. apply clear coats to match existing finishes (matt clear coat, ceramic, and soft healing clear coat)	4	6	-	3
	PC4. apply clear coats as per paint manufacturer's instructions to avoid defects such as runs, excessive orange peel, etc.	4	7	-	3
	PC5. follow the Original Equipment Engineering Manufacturer (OEM) or paint manufacturer's (Technical Data Sheet – TDS) recommendations	4	6	-	3
	PC6. dispose of unused clear coat in an environmentally safe manor	4	6	-	2
	PC7. maintain organized and clean work areas	3	6	-	2
	PC8. prevent over-use of products	3	6	-	2
	Total Marks	30	50	-	20
Colour evaluation and colour adjustment	PC1. locate and document vehicle manufacturers paint codes	2	4	-	2
	PC2. determine types and colours of paint using manufacturers' paint codes and vehicle information	2	3	-	1
	PC3. evaluate spray-out cards against the standards to identify colour mismatches in terms of hue, chroma, saturation, lightness, and darkness	3	5	-	2
	PC4. select and apply suitable procedures to adjust colour to match the given standards	3	5	-	2
	PC5. select toners to correct colour miss-matches	3	5	-	2
	PC6. identify and use the correct lighting to match colours	3	5	-	2
	PC7. use the correct gun speeds, distance, and overlap to produce quality spray out cards	3	5	-	2
	PC8. maintain organized and clean work areas	3	5	-	2
	PC9. use spectrophotometer	3	5	-	2
	PC10. use mixing scales to produce ready to spray products	3	5	-	2
	PC11. prevent overuse of products	2	3	-	1
	Total Marks	30	50	-	20
Design, layout, and measurement	PC1. mask areas of vehicle panels for the prevention of overspray between colours for painting	2	3	-	1

	PC2. mask and protect adjacent panels that will not be refinished	2	3	-	1
	PC3. apply vinyl decals/transfers to specified locations without creases, bubbles, cuts, etc.	2	4	-	2
	PC4. apply covering vinyl (carbon or matt) to given locations without creases, bubbles, cuts, etc.	2	4	-	2
	PC5. mask door jambs and other moveable panels	2	3	-	1
	PC6. mask for design painting and two-tone finishes	3	5	-	2
	PC7. apply a range of special effect coatings, including blended colours	2	3	-	1
	Total Marks	15	25	-	10
Remove minor damage and defects from painted and non-painted surfaces	PC1. identify the types of defects that may occur on a painted surface such as dirt nibs, pin holes, runs, environmental effects, etc.	4	7	-	3
	PC2. apply correct repair procedures to remove or repair paint defects	4	6	-	2
	PC3. carry out 'smart' repairs to small areas of damage	4	6	-	3
	PC4. evaluate the extend of minor panel damage and plan work accordingly to rectify this damage	4	7	-	3
	PC5. wet and dry sand clear coat to remove and rectify defects	4	6	-	3
	PC6. apply polyester and epoxy fillers to repair small stone chip damage to panel surfaces	4	6	-	2
	PC7. prepare and blend invisibly scratch and scuff damage	3	6	-	2
	PC8. reinstate original gloss levels using polishing techniques and materials	3	6	-	2
	Total Marks	30	50	-	20
Grand Total		195	325	-	130

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
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