QUALIFICATION FILE

Two/Three-Wheeler Mechanic (Including LPG & CNG)

✓ 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

Submitted By: West Bengal State Council of Technical & Vocational Education and Skill Development

Submitting Body Name: West Bengal State Council of Technical & Vocational Education and Skill Development, Karigari Bhavan (5th Floor), Plot-B/7, Action Area-III, New Town, Kolkata-700160

Submitting Body Contact Details:
Position in the organization: Chief Administrative Officer
Address if different from above: Same as above
Tel number(s): 033-2340-3717
E-mail address: caowbsctvesd2024@gmail.com

Table of Contents

Section 1: Basic Details

1.	**Qualification Name**	**Two/Three-Wheeler Mechanic (Including LPG & CNG)** **STC-AUT/2024/0413**	
2.	**Sector/s**	Automotive	
3.	**Type of Qualification: ☐ √New ☐ Revised ~~☐ Has Electives/Options~~** **~~☐OEM~~**	**NQR Code & version of existing/previous qualification: NA**	**Qualification Name of existing/previous version: NA**
4.	**a. OEM Name** **b. Qualification Name** (*Wherever applicable)*	**NA**	
5.	**National Qualification Register (NQR) Code &Version** (*Will be issued after NSQC approval)*	QG-03-AU-03426-2024-V1-WBSC	**6. NCrF/NSQF Level:** *3*
7.	**Award (Certificate/Diploma/Advance Diploma/ Any Other** *(Wherever applicable specify multiple entry/exits also & provide details in annexure)*	Certificate	
8.	**Brief Description of the Qualification**	The Two/Three-Wheeler Mechanic (Including LPG & CNG) will be responsible for diagnosing, troubleshooting and repairing a variety of two and three-wheeler vehicles, including those with LPG and CNG fuel systems. The role involves working with engines, fuel systems, transmission systems, brakes, suspension, steering and electrical components. Adherence to safety protocols and quality standards is essential.	
9.	**Eligibility Criteria for Entry for Student/Trainee/Learner/Employee**	**a) Entry Qualification & Relevant Experience:** **b. Age:** 18 Years	
10.	**Credits Assigned to this Qualification, Subject to Assessment**	12	**11. Common Cost Norm Category (I/II/III)**

S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)
1	10th or equivalent	Nil
2	8th	3 years
3	Previous relevant Qualification of NSQF Level 2.5	1.5 years

<table>
<tr><td></td><td>(as per National Credit Framework (NCrF))</td><td></td><td>(wherever applicable):
I</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 (Hou s)</th></tr>
<tr><td>Classroom (offline)</td><td>120</td><td>180</td><td>60</td><td></td><td>360</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>
<tr><td>14.</td><td>Aligned to NCO/ISCO Code/s (if no code is available mention the same)</td><td colspan="2">NCO-2015/3115.0601,7231.0500,7231.0501</td></tr>
<tr><td>15.</td><td>Progression path after attaining the qualification (Please show Professional and Academic progression)</td><td colspan="2">Two- Wheeler Service Technician, L-4</td></tr>
<tr><td></td><td>Other Indian languages in which the Qualification & Model Curriculum are being submitted</td><td colspan="2">NO</td></tr>
<tr><td></td><td>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</td><td colspan="2">☐ Yes √☐ No URLs of similar Qualifications:</td></tr>
<tr><td></td><td>Is the Job Role Amenable to Persons with Disability</td><td colspan="2">☐ Yes √☐ No
If “Yes”, specify applicable type of Disability:</td></tr>
<tr><td></td><td>How Participation of Women will be Encouraged</td><td colspan="2">Women as part of self-help groups take part in this training and then go for self-employment as well as wage employment</td></tr>
<tr><td></td><td>Are Greening/ Environment Sustainability Aspects Covered
(Specify the NOS/Module which covers it)</td><td colspan="2">☐√ Yes ☐ No
Module 1: Occupational Safety hazard at workplace
AUT/0413/OC1
Apply Safe Working Practices</td></tr>
<tr><td></td><td>Is Qualification Suitable to be Offered in Schools/Colleges</td><td colspan="2">Schools ✓ Yes ☐ No Colleges ☒ Yes ☐ No</td></tr>
<tr><td></td><td>Name and Contact Details of Submitting / Awarding Body SPOC
(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</td><td colspan="2">Name: Subrato Sarkar, Chief Administrative Officer
Email: caowbsctvesd2024@gmail.com
Contact No.: 033-2340-3717
Website: sctvesd.wb.gov.in</td></tr>
<tr><td></td><td>Final Approval Date by NSQC: 17.12.2024</td><td>Validity Duration: 3 years</td><td>Next Review Date 16.12.2027</td></tr>
</table>

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.	Apply Safe Working Practices	AUT/0413/OC1 & 1.0	Core	3	1	10	20			30	10	70	0		80	8%
2.	Identify different types of Two/Three wheeler and their configuration	AUT/0413/OC2 & 1.0	Core	3	1	10	20			30	20	80	0		100	10%
3.	Identify and explain the key features of two and three-wheeler engines	AUT/0413/OC3 & 1.0	Core	3	1	10	20			30	20	80	0		100	10%
4.	Identify hand tools, measuring tools and their uses.	AUT/0413/OC4 & 1.0	Core	3	1	10	20			30	20	80	0		100	10%
5.	Troubleshoot any fault of engine system, fuel feed system and transmission system.	AUT/0413/OC5 & 1.0	Core	3	2	20	40			60	30	130	0		160	16%
6.	Troubleshoot and repair the fault of brake and wheel, ignition system, electric system	AUT/0413/OC6 & 1.0	Core	3	2	20	40			60	30	130	0		160	16%

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)*
7.	Repair parts like fork, suspension system, steering column, mud guard, lubrication system.	AUT/0413/OC7 & 1.0	Core	3	1	10	20			30	20	80	0		100	10%
8.	Work in real job situation with special emphasis on basic safety and hazards in this domain.	AUT/0413/OC8 & 1.0	Core	3	2	00	00	60		60	0	0	150		150	15%
9.	Employability Skills- 30 hrs.	DGT/VSQ/N0101,& 1.0	Non-Core	3	1	30				30	50	0	0		50	5%
Duration (in Hours) / Total Marks including ES						**120**	**180**	**60**		**360**	**200**	**650**	**150**		**1000**	

Elective NOS/s: NA

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.																
2.																
Duration (in Hours) / Total Marks																

Optional NOS/s: NA

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.																
2.																
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

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

Minimum Pass Percentage – Aggregate at qualification level: Th. 60% & Pr70% *(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)*	CTS/ATS (Mechanic Two and Three wheeler/Mechanic Motor Vehicle) with 3 years' relevant experience OR/ Diploma ((Automobile Engineering/Mechanical Engineering (Specialization in Automobile Engineering)) with 2 years' relevant experience OR/ B. Tech/BE ((Automobile/ Mechanical Engineering (Specialization in Automobile Engineering)) with 1 year relevant experience OR/ BSC (Automobile Maintenance) with 2 years' relevant experience AND Certified for Job Role: "Two/Three Wheeler Mechanic (Including LPG & CNG)" mapped to QP: "STC-AUT/2024/0413".Minimum accepted score is 80%. AND Certified for the Job Role: "Trainer(VET & skills)", mapped to the Qualification Pack: "MEP/Q2601, v2.0". Minimum accepted score is 80%.
2.	**Master Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	CTS/ATS (Mechanic Two and Three wheeler/Mechanic Motor Vehicle) with 3 years' relevant experience OR/ Diploma ((Automobile Engineering/Mechanical Engineering (Specialization in Automobile Engineering)) with 2 years' relevant experience OR/ B. Tech/BE ((Automobile/ Mechanical Engineering (Specialization in Automobile Engineering)) with 1 year relevant' experience OR/ BSC (Automobile Maintenance) with 2 years' relevant experience AND Certified for Job Role: "Two/Three Wheeler Mechanic (Including LPG & CNG)" mapped to QP: "STC-AUT/2024/0413".Minimum accepted score is 80%. AND Certified for the Job Role: "Trainer(VET & skills)", mapped to the Qualification Pack: "MEP/Q2601, v2.0". Minimum accepted score is 80%.Certified on any domain skill of NSQF Level 5 with experience in training activities in similar field.

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**	NO

Section 4: Assessment Related

1.	**Assessor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	CTS/ATS (Mechanic Two and Three wheeler/ Mechanic Motor Vehicle) with 5 years' relevant experience OR/ Diploma ((Automobile Engineering/Mechanical Engineering (Specialization in Automobile Engineering)) with 3 years' relevant experience OR/ B. Tech/BE ((Automobile/ Mechanical Engineering (Specialization in Automobile Engineering)) with 2 years' relevant experience OR/ BSC (Automobile Maintenance) with 3 years' relevant experience AND Certified for Job Role: "Two/Three Wheeler Mechanic(Including LPG & CNG)" mapped to QP: "STC-AUT/2024/0413". Minimum accepted score is 80%. AND Certified for the Job Role: "Assessor(VET & skills)", mapped to the Qualification Pack: "MEP/Q2701, v2.0". Minimum accepted score is 80%. AND Assessor will be required to be empaneled with WBSCTVESD upon successfully clearing TOA in relevant job role to be conducted from time to time by WBSCTVESD.
2.	**Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	CTS/ATS (Mechanic Two and Three wheeler/ Mechanic Motor Vehicle) with 5 years' relevant experience OR/ Diploma ((Automobile Engineering/Mechanical Engineering (Specialization in Automobile Engineering)) with 3 years' relevant experience OR/ B. Tech/BE ((Automobile/ Mechanical Engineering (Specialization in Automobile Engineering)) with 2 years' relevant experience OR/ BSC (Automobile Maintenance) with 3 years' relevant experience
3.	**Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	CTS/ATS (Mechanic Two and Three wheeler/ Mechanic Motor Vehicle) with 5 years' relevant experience OR/ Diploma ((Automobile Engineering/Mechanical Engineering (Specialization in Automobile Engineering)) with 3 years' relevant experience OR/ B. Tech/BE ((Automobile/ Mechanical Engineering (Specialization in Automobile Engineering)) with 2 years' relevant experience

		OR/ BSC (Automobile Maintenance) with 3 years' experience
4.	**Assessment Mode** *(Specify the assessment mode)*	**Offline**
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):** No
2.	**Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):** No
3.	**Government /Industry initiatives/ requirement (Yes/No):** No
4.	**Number of Industry validation provided:** 20
5.	**Estimated nos. of persons to be trained and employed:** 6000 per year
6.	**Evidence of Concurrence/Consultation with Line Ministry/State Departments:** *Yes* 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)*	*Annexure 1*
2.	**Annexure:** List of tools and equipment relevant for qualification *(Mandatory, except in case of online course)*	*Annexure 2*
3.	**Annexure:** Detailed Assessment Criteria *(Mandatory)*	*Annexure 6*
4.	**Annexure:** Assessment Strategy *(Mandatory)*	*Annexure 7*
5.	**Annexure:** Blended Learning *(Mandatory, in case selected Mode of delivery is "Blended Learning")*	*NA*
6.	**Annexure:** Multiple Entry-Exit Details *(Mandatory, in case qualification has multiple Entry-Exit)*	*NA*
7.	**Annexure:** Acronym and Glossary *(Optional)*	*Annexure 8*
8.	**Supporting Document:** Model Curriculum *(Mandatory – Public view)*	*Yes*

9.	**Supporting Document:** Career Progression *(Mandatory - Public view)*	*Yes in Q file*
10.	**Supporting Document:** Occupational Map *(Mandatory)*	*Yes in Q File*
11.	**Supporting Document:** Assessment SOP *(Mandatory)*	*Yes in Model Curriculum*
12.	**Any other document you wish to submit:**	*NO*

Annexure1: 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 role of Two/Three Wheeler Mechanic i (Including LPG & CNG) Includes a combination of technical skills, knowledge and personal attributes. Job holder may carry out routine servicing and basic repair work of 2/3 wheeler Identification of different types of 2/3 wheeler and demonstrate their uses. Hands on experience with tools with step by step instruction on performing repairs and troubleshooting. Identify basic problems in an engine and their causes Diagnose basic problem of clutch, gearbox and their causes. Technician will follow the safety procedure and guidelines to ensure a safe working environment for one self and others in the industry/workshop	The learner required to demonstrate well developed skill to identify the problems and troubleshoot the causes. Persons are able to identify simple troubleshooting problems related to different parts of 2/3 wheeler, recognize their cause and are able to carry on routine servicing and simple repair of the same.	3
Professional and Technical Skills/ Expertise/ Professional Knowledge	The Technician have knowledge involving a defined range of standard procedures employed in routine contexts. Persons are able to identify different types of 2/3 wheeler and demonstrate their uses. Persons are able to Define working principle of four stroke engine Persons are able to Identify hand tools, measuring tools along with their uses. Persons are able to understand basic troubleshooting problems and their causes regarding various parts of 2/3 wheeler. The learners uses limited discretion and judgement over a range of known responses to familiar problems	Persons are able to acquire basic knowledge on different types of 2/3 wheeler and their use. They are also able to acquire the working principle of a four stroke engine. They are able to identify different hand tools and measuring tools and their application. The persons are able to understand basic troubleshooting problems and their causes related to different parts of 2/3 wheeler. They can interpret the available information & communicate the same. The technician having knowledge in the professional and technical aspects, perform their duties with precision, efficiency and effectiveness.	3

Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	A strong foundation in automotive repair techniques, diagnostic skills and experience with a wide range 2/3 wheelers and systems is essential for becoming a skilled technician. Persons are able to recognize the troubleshooting problems and the carry on repair works on engine system, clutch, carburettor, gearbox, brake and wheel, fuel feed system, ignition system, electrical system. Also they will be able to do the general servicing of 2/3 wheeler (including LPG/CNG). Prioritizing safety for oneself and coworkers is non-negotiable. They should consistently follow safety guidelines and best practices in the workshop	A range of skills and technical capabilities of carrying out a choice of processes and procedures within the range of familiar contexts. Persons are able to recognize troubleshooting problems and the corresponding cause for various parts of 2/3 wheeler. With the help of the knowledge the persons are able to service and repair different parts of 2/3 wheeler with their practical skill. Identify the problem and issues within the range of familiar contexts and generate possible solution	3
Broad Learning Outcomes/Core Skill	Persons are able to communicate with both the employee and customer in the local language. Persons are able to read the instruction manuals, job card preferably in English. Persons are able to have basic computer knowledge. Persons are able to access all sorts of banking processes. Have broader employability skills including self-employment and mini entrepreneurship skills. Persons are able to have an idea for getting a trade license.	Working as a member of team/with a team. Good skills in written and oral communication with some clarify, basic knowledge of language to support such communication. Intermediate literacy and numeracy skills Skills for workshop calculations and basic of arithmetic calculations Persons have limited communication skill, arithmetic skills, basic computer skills to meet up personal banking, basic understanding of social and natural environment.	3
Responsibility	The mechanic must be able to carry out job/work/tasks in a familiar predictable , routine, situation of clear choice Focus on range of application of standard procedures or operations in production/services. Understand all safety & general hygiene norms and environmental aspects, together with risks. Persons are able to repair 2/3 wheeler (including LPG/CNG) him/herself to some extent otherwise the repairing can be done under close supervision.	Takes responsibility for delivery and quality of own risk of own work and tangible output. Able to assist in the planning of the routine and predictable tasks within a specific field. Persons are able to carry on servicing and repairing themselves to a certain extent. Persons are under close supervision.	3

Annexure2: Tools and Equipment (Lab Set-Up)

Tools and Equipment for Two/Three Wheeler Mechanic (Including LPG & CNG) (30 students)

Sl. No.	Tools/ Equipment	Specification	Qty.
1	Allen Key set	12 pieces (2mm to 14mm)	6
2	Caliper inside	15 cm Spring	6
3	Calipers outside	15 cm Spring	6
4	Center Punch	10 mm. Dia. x 100 mm.	6
5	Dividers	15 cm Spring	6
6	Hands file	20 cm. Second cut flat	6
7	Electrician Screw Driver	250 mm	6
8	Ball peen hammer	Peen 0.5 kg in with handle	6
9	Philips Screw Driver set	5 pieces (100 to 300mm)	6
11	Screw driver	20cm.X 9mm. Blade	6
12	Screw driver	30 cm. X 9 mm. Blade	6
13	Scriber	20 cm	6
14	Spanner D.E. set of 12 pieces	(6mm to 32mm)	6
15	Spanner, ring set of 12 metric sizes	6 to 32 mm.	6
16	Spanners socket with speed handle, T-bar, ratchet and universal	Up to 32 mm set of 28 pieces with box	6
17	Steel rule	30 cm (inch and metric)	6
18	Wire cutter and stripper	Plastic Handle Wire Strippers Crimper Plier Electrical Tool	6
19	Adjustable spanner (pipe wrench)	350 mm	2
20	Ammeter	300A/ 60A DC with external shunt	4
21	Auto Electrical test bench	Testing of all opening points of one	1
22	Lead acid 12 V Battery –charger	110 – 265 V AC supply (50 /60 Hz), 14.2 V max output, max current 1 amp	2
23	Blow Lamp	1 litre	2
24	Chisel flat	2.2 cm x 20 cm flat	4
25	Chisel octagonal flat	200 mm X 6 mm	4

26	Circlip pliers Expanding and contracting type	15cm and 20cm each	4
27	Clamps C	100 mm	2
28	Clamps C	150 mm	2
29	Clamps C	200 mm	2
30	Cleaning tray	45x30 cm.	4
31	Copper bit soldering iron	0.25 Kg	2
32	Cylinder bore gauge	capacity 18 to 160 mm	2
33	Depth micrometer (digital)	0-25mm, LC: 0.02mm	4
34	Outside micrometer	0 – 25 mm, LC: 0.02	4
35	Drill twist	1.5 mm to 13 mm (23 pcs) by 0.5 mm step, 14mm, 15mm	4
36	Drill twist	14mm, 15mm	2
37	Electric Soldering Iron	230 V 60 watts, adjustable temperature 200-450°C, 5 tips	2
38	Electric testing screw driver	6’	4
39	Feeler gauge	20 blades (metric)	4
40	Working scooter/motor cycle		1 each
41	Working model of MPFI of auto rickshaw.		1
42	Trolley type portable air compressor single cylinder		1
43	Grinding machine (general purpose)		1
44	Tachometer		
45	Tyre pressure gauge with holding nipple		2
46	Multimeter digital LCD DC AC		4
47	Lead acid 12 V Battery –charger		1
48	Working model of handle bar steering system		1
49	Injector cleaning kit		1
50	LPG kit with cylinder		1
51	CNG kit with cylinder		1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. White Board
2. White board writing pen
3. Projector
4. Computer

Annexure3: 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.	TVS Motor	Suman Kundu	Services	Haroa pin-743425	9732539005	kundutvsharoa@gmail.com	
2.	G.D.A.Honda	Santosh Mahapatra	Service Manager	Uluberia	9635844899	Service.uluberia@ gdgroupblg.com	
3.	YO Bykes	Arojit Roy	Service Point	Haroa pin -743425	7478043474	Sudiptabiswa455@gmail.com	
4	Shree guru Automobiles	Mithun Sharma	Mechanic	Barshaj, Birbhum	8158083598	Sharmamithun443@gmail.com	
5.	Bidyadhari Auto(Bajaj Auto)	Pabir Bhattacharya	Authorized Dealer	Haroa Pin- 743425	9735410266	baidyadhariauto@yahoo.in	
6.	Shreya Automobile (Yamaha)	Anirban Sural	General Mangaer	Kalimela, Bishnupur, Bankura-722122	9775802909	Suralaniy2020@gmail.com	
7.	Sreemoyee Automobiles	Ashish Kumar Makur	Proprietor	Jhapormore Bishnupur, Bankura, Pin-722122	9434134754/ 7001677787	Sreemoyee.makur@gmail.com	
8.	Lokenath Bike centre	Ramkrishna Das	Proprietor	Chhotosalkumar, 6th Mile, alipurduar	8250530771		
9.	Munna Auto Works	Munna Hossain	Proprietor	Chhotosalkumar, 6th Mile, alipurduar	8918984585		
10.	Raju Bike Centre	Raju Mandal	Proprietor	Chhotosalkumar, 6th Mile, alipurduar	8918981668		
11.	Poddar Motor	Pachu poddar	Proprietor	Kamardokan, amtala baruipur road, pin-743503	9038215790		
12.	S.P Road Line	Ayan chakraborty	manager	Tejganj, school para(Durgapur Road), P.O.-	7699456441	Ayanchakraborty.bwn@gmail.com	

				Nutanganj,Purba bardhaman			
13.	Vishwakarma Auto Service	Sanju Das	Owner & Mechanic	Lakudi, Battala, Purba Burdwan, Pin-713102(WB)	7908619589	Sanju790861@gmail.com	
14.	National Motor-Cycle Repairing Shop	SK Sakir Ali	Owner	Keshabganj chatti (near High Madrasa, GT Road, Bardhaman4.	8918771883		
15.	B.D auto	Sayan Singh	Mechanic	Doloi Dighi. Shyamsundar, Raina, Purba Bardhaman-713424(WB)	6296516325		
16.	Rajkumar Automobiles Sales Pvt. Ltd	Kuntal Sen	Parts Manager	Mitra compound Station Road	8348284201	serviceim@rajkumargroup.com	
17.	Nexagen Solution technologies pvt. Ltd	Chandan Kumbhkar	Project Coordinator	Near Ancillary Chowk, beside diara ford service center, tupudana, ranchi Jharkhand-834003	96144786498	Nexgen.ddukk@gmail.com	
18.	Jis Foundation	Brajesh gautam	Deputy manager	56 Jessore road, basak Bagan, patipukur, Kol-700048	700337875	brajes@jisd.in	
19.	OSL Motocorp PVT ltd	Om kumar sharma	Training & Development Manager	Maruti Suzuki Arena(OSL Motocorp Kokata, Baguiati) Raghunathpur, Kol-700059	9088838133	Om93sharma@gmail.com	
20.	Bandhan Konnagar	Kritadhi Jana	Centre incharge	Street no. 692, plot no. 11D/30, action area-11D, new town , west Bengal-700161	9735388778	Garia.ci@bandhan.org	

Annexure4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2024-2025	8000	100% (self employed)	1000	100% (self employed)	----	----

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
1.0	2019-20	5980	4573	4573	100% (self employed)	744	518	518	100% (self employed	----	-----	----	----
1.0	2021-22	4891	3746	3746	100% (self employed)	717	542	542	100% (self employed				
1.0	2022-23	7963	4789*	4789*	100% (self employed)	1281	743*	743*	100% (self employed				
1.0	2023-24	3800	On going		100% (self employed)	1950	On going		100% (self employed)				

***Examination in progress**

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

1. State Level Short Term Program under “Utkarsh Bangla” Scheme.

Content availability for previous versions of qualifications:

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

Languages in which Content is available: English

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools: NA

Refer NCVET "Guidelines for Blended Learning for Vocational Education, Training & Skilling" available on:
https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf

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

Annexure6: 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
Occupational Safety hazard at workplace AUT/0413/OC1	**Apply Safe Working Practices**	10	70		
	(1.1) Apply and maintain Safe Working Practices (1.2) Recognize any unsafe situations according to site policy. (1.3) Identify fire and safety and fire hazards (1.4) Identify different fire extinguishers and use them as per requirements. (1.5) Perform bubble test for LPG leakage in 3-wheeler. (1.6) Identify CNG leakage by sniffing in Two - Three wheeler. (1.7) Follow basic pollution control measure used in automobile shop surroundings.				
	Total Marks	10	70		
Different Types of Two and Three wheeler AUT/0413/OC2	**Identify different types of Two/Three wheeler and their configuration**	20	80		
	(2.1) State the basic differences between two wheelers: types of motorcycles, scooter. (2.2) Comprehend the engine configurations with various transmission systems (2.3) Define the uses of various parts of two/three wheeler (2.4) Identify different parts of alternative fuel feed system				

	(2.5) Identify different frame and body of two and three wheelers				
	Total Marks	20	80		
Features of Two and Three wheeler engines AUT/0413/OC3	**Identify and explain the key features of two and three-wheeler engines**	20	80		
	(3.1) Identify the four stroke and narrate the working principle of four stroke engine (3.2) Differentiate two stroke and four stroke engines (3.3) Identify different engine components like cylinders, pistons, crankshafts and their role in engine functionality (3.4) Identify the difference four stroke LPG and four stroke NG and four stroke petrol engines				
	Total Marks	20	80		
Hand tools & measuring tools. AUT/0413/OC4	**Identify hand tools, measuring tools and their uses.**	20	80		
	(4.1) Recognize the hand tools used for repairing Two/Three wheeler, like. Hammer mallet, torque wrench, screw driver, file, etc. (4.2) Describe the purpose and use of hand tools. (4.3) Plan the working principles of measuring instruments and special tools used in auto workshop. (4.4) Apply appropriate tools for lifting a three-wheeler (4.5) Recognize the measuring instruments with working principle of vernier caliper, caliper, micrometer, scale, feeler gauge etc.				
	Total Marks	20	80		
Troubleshoot fault of engine system, fuel feed system and transmission system. AUT/0413/OC5	**Troubleshoot any fault of engine system, fuel feed system and transmission system**	30	130		
	(5.1) Identify basic problems in an engine and their cause (5.2) Dismantle, replace any parts and reassemble different parts of an engine. (5.3) Identify basic problems in a carburetor and their cause. (5.4) Diagnose basic problem of a clutch and their causes. (5.5) Diagnose basic problem of a gearbox and their causes. (5.6) Dismantle, replace any parts and reassemble a clutch, dismantle, replace any parts and reassemble a gearbox. (5.7) Repair of sprocket system of a motor cycle, adjust primary and secondary chain (5.8) Identify and change the components as required viz. Belts, oil and air filters etc. (5.9) Demonstrate different alternative fuel feed system required in 3wheeler. (5.10) Replace CNG kit/LPG kit in a 3-wheeler and test it for its functionality				
	Total Marks	30	130		
Troubleshoot and repair fault of brake and wheel, ignition system, electric system.	**Troubleshoot and repair the fault of brake and wheel, ignition system, electric system.**	30	130		
	(6.1) Diagnose basic problem of brake system and their causes. (6.2) Dismantle, replace any parts and reassemble a brake shoe/disc brake. (6.3) Diagnose basic problems of wheel system and their causes.				

AUT/0413/OC6	(6.4) Dismantle, replace any parts and reassemble a wheel (6.5) Diagnose basic problems of ignition system and their causes. (6.6) Dismantle, replace any parts and reassemble ignition system (6.7) Diagnose basic problems of battery and their causes. (6.8) Replace/ repair the connection of battery. (6.9) Diagnose basic problems of lighting system, switch, relay, and their causes. (6.10) Repair of lighting system, switches, relays.				
	Total Marks	30	130		
Troubleshoot and repair parts like fork, suspension system, steering column, mud guard and lubrication system. AUT/0413/OC7	**Repair parts like fork, suspension system, steering column, mud guard, lubrication system.**	20	80		
	(7.1) Diagnose basic problems of fork, suspension system, steering column, mud guard, lubrication system and their causes. (7.2) Replace/ repair the fork, suspension system, steering column, mud guard, lubrication system. (7.3) Restore the suspension systems efficiency (7.4) Apply proper lubrication of moving parts, preventing wear and tear				
	Total Marks	20	80		
OJT AUT/0413/OC8	**Work in real job situation with special emphasis on basic safety and hazards in this domain.**	0	0	150	
	(8.1) Work in real job situation with special emphasis on basic safety and hazards in this domain				
Employability Skills (30 hrs). DGT/VSQ/N0101	**Employability Skills (30 hrs).**				
	As per NCVET guided course module for 30 Hrs	50	0		
Grand Total		**200**	**650**	**150**	

Annexure7: 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 WBSCTVE&SD for conducting the assessment online through Portal with two probable dates for Assessment
- WBSCTVE&SD deploys the ToA certified Assessor for executing the assessment
- WBSCTVE&SD monitors the assessment process & records

2. Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then Assessment will spill over to consecutive days.
- 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.

4. Types of evidence or evidence-gathering protocol:
- 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 will be assessed separately.
2. The pass criteria is as per norms set by WBSCTVE&SD in respect of Qualification Files
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills, understanding needs & requirements, and perform Soft Skills effectively:
   • Videos / portfolio of Trainees during OJT
4. Assessment of each Module will ensure that the candidate is able to:

- Effective engagement with the stakeholders
- Understand the working of various tools and equipment
- Deliver the job assigned to him/her in conformity with job responsibility ascribed to Qualification File.

Annexure8: 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	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual

Standards (NOS)	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