



सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
DEVELOPMENT COMMISSIONER
MINISTRY OF MICRO, SMALL & MEDIUM
ENTERPRISES

MSME TECHNOLOGY CENTRE



QUALIFICATION FILE

JR. TECHNICIAN-AUTOMOBILE ASSEMBLY & SERVICE

- ☐ Short Term Training (STT) ☒ Long Term Training (LTT) ☐ Apprenticeship
☐ Up skilling ☐ Dual/Flexi Qualification ☐ For ToT ☐ For ToA
☒ General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 4.0

Submitted by

MSME TECHNOLOGY CENTRE

O/o DC MSME, Ministry of Micro, Small and Medium Enterprises

Govt. of India

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Section 1: Basic Details

1.	Qualification Name	JR. TECHNICIAN-AUTOMOBILE ASSEMBLY & SERVICE	
2.	Sector/s	Automotive Skills Development Council	
3.	Type of Qualification: ☒ New ☐ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i> QG-04-AU-02390-2024-V1-MSME	Qualification Name of existing/previous version: CERTIFICATE COURSE IN AUTOMOBILE ASSEMBLY & SERVICE (CCAAS)
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>	N.A. -	
5.	National Qualification Register(NQR) Code&Version <i>(Will be issued after NSQC approval)</i>	QG-04-AU-02390-2024-V1-MSME	6. NCrF/NSQF Level: 4.0
7.	Award (Certificate/Diploma/Advance Diploma/Any Other) <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	CERTIFICATE	
8.	Brief Description of the Qualification	This qualification containing different module which is required for the job role automobile technician, this qualification ultimately helps learner in the following:- - To be expertise in automobile assembly & servicing operations - To get an employment in Automobile Industry - To be an Entrepreneur	
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: 10th Grade Pass or equivalent b. Age: 18	
10.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	80	11. Common Cost Norm Category (I/II/III) <i>(wherever applicable): I</i>
12.	Any Licensing requirements for Undertaking Training on This Qualification <i>(wherever applicable)</i>	NA	

13.	Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	☒ Offline ☐ Online ☐ Blended <table border="1"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>600</td> <td>600</td> <td>1200</td> <td>-</td> <td>2400</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <i>(Refer Blended Learning Annexure for details)</i>		Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	600	600	1200	-	2400	Online	-	-	-	-	-
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																
Classroom (offline)	600	600	1200	-	2400																
Online	-	-	-	-	-																
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	7231/Automobile technician																			
15.	Progression path after attaining the qualification <i>(Please show Professional and Academic progression)</i>	Professional/Career Progress: TECHNICIAN-AUTOMOBILE ASSEMBLY & SERVICE																			
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	None																			
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	Seats are reserved as per Govt. norms.																			
20.	Are Greening/ Environment Sustainability Aspects Covered <i>(Specify the NOS/Module which covers it)</i>	☒ Yes ☐ No The said aspect is covered in the module name Employability 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 <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Sh. Vijay Mahipatrao Bankar Contact No. +0755 3501078 Email-msmetcab@gmail.com																			
23.	Final Approval Date by NSQC: 30.04.2024	24. Validity Duration: 3years	25. Next Review Date: 30.04.2027																		

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

1st Year

S. No	NOS/ModuleName	NOS/Module Code & Version (if applicable)	Core/Non-Core	NCrF/N SQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks				
						Th.	Pr.	O J T- Man.	O J T- Rec.	Total	Th.	Pr.	P roj.	V iva	Weightage (%) (if applic able)
1.	Automobile Technology	MSME/CCAAS/64/01	Core	4	4	120				120	100				100
2.	Manufacturing Technology	MSME/CCAAS/64/02	Core	4	2	60				60	100				100
3.	Engineering Metrology	MSME/CCAAS/64/03	Core	4	1	30				30	100				100
4.	Industrial Legislation and safety	MSME/CCAAS/64/04	NON - Core	4	1	30				30	100				100
5.	Employability Skill	MSME/ES/04	NON - Core	4	2	60				60	100				100
6.	Automobile Practice	NA	Core	4	10		300			300		400			400
7.	On job training	NA	Core	4	20			600		600		100			100
Duration (in Hours) / Total Marks					40	300	300	600		1200	500	500			1000

2ND Year

S. No	NOS/ModuleName	NOS/ module Code & Version (if applicable)	Core/ Non- Core	NCr F/N SQF Level	Credit as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJ T- Man.	OJT- Rec.	Total	Th.	Pr.	P roj.	Viva	Total	Weightage (%) (if applic- able)
1.	Automobile Technology	MSME/CCAAS/64/01	Core	4	3	90				90	100				100	
2.	Manufacturing Technology	MSME/CCAAS/64/02	Core	4	1	30				30	100				100	
3.	Engineering Metrology	MSME/CCAAS/64/03	Core	4	1	30				30	100				100	
4.	Industrial Legislation and safety	MSME/CCAAS/64/04	NON - Core	4	1	30				30	100				100	
5.	Employability Skill	MSME/ES/04	NON - Core	4	4	120				120	100				100	
6.	Automobile Practice	NA	Core	4	10		300			300		400			400	
7.	On job training	NA	Core	4	20			600		600		100			100	
Duration (in Hours) / Total Marks			-	-	40	300	300	600	-	1200	500	500	-		1000	

Elective NOS/s:

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment M				
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	T
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/NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						T h.	P r.	OJT-Man.	OJT-Rec.	Total	T h.	P r.	Proj.	Viva	Total	Weight age (%) (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: % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Marks to pass Theory Exam: 40%

Minimum Marks to pass Practical Exam: 60%

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.)

Minimum Marks to pass Theory Exam: 40%

Minimum Marks to pass Practical Exam: 60%

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Diploma/ Degree in Mechanical Engineering or Equivalent with Practical skills and knowledge required in the relevant job role at least one level high-rise level 4.5 and above in related field and minimum 2 years of experience in Tool Room/ Technology Centre of MSME or any reputed industry will become a trainer, Or in accordance with the TOT guideline of NCVET
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Degree in Engineering (Mechanical/ Production/Manufacturing Technology) or equivalent with 3 to 5 years of experience in Production/ Training/ Design Department from Tool Room/ Technology Centre of MSME or any reputed industry will become as a Master Trainer, Or in accordance with the TOT guideline of NCVET
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	Yes

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Diploma / Degree in Engineering (Mechanical/ Production/ Manufacturing Technology) or equivalent with 3 years of experience in Production/ Training/ Design Department from Tool Room/ Technology Centre of MSME or any reputed industry. Only (TOA) certified assessors will be able to conduct the assessments.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Degree in Engineering (Mechanical/ Production/ Manufacturing Technology) or equivalent With 5 years of experience in Production/ Training/ Design Department from Tool Room/ Technology Centre of MSME or any reputed industry.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Post Graduate in the relevant discipline with minimum 5 years of experience in Production/ Training/ Design Department from Tool Room/ Technology Centre of MSME or any reputed industry.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Blended Type (Online + Offline)
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☒ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years)(Yes/No): Yes, India Skills Report 2023, “ Roadmap to India’s Skills and talent Economy 2030”
2.	Latest Market Research Reports or any other source (not older than 2years) (Yes/No): Yes , “Engineering and capital goods industry” (Feb-2023) by India Brand Equity Foundation –IBEF (Trust established by theDepartment of Commerce, Ministry of Commerce and Industry, Government of India
3.	Government /Industry initiatives/ requirement (Yes/No): Yes
4.	Number of Industry validation provided: 30
5.	Estimated nos. of persons to be trained and employed: 1
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: NA If “No”, why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justificationbased on NCrf level/NSQF descriptors (Mandatory)	Annexure-I
2.	Annexure: List of tools and equipment relevant for qualification (Mandatory, except incase of online course)	Annexure-II
3.	Annexure: Detailed Assessment Criteria (Mandatory)	Annexure-III
4.	Annexure: Assessment Strategy (Mandatory)	Annexure-IV
5.	Annexure: Blended Learning (Mandatory, incase selected Mode of delivery is “Blended Learning”)	Annexure-V
6.	Annexure: Multiple Entry-Exit Details (Mandatory, in case qualification has multipleEntry-Exit)	NA
7.	Annexure: Acronym and Glossary (Optional)	Annexure-VI

8.	Supporting Document: Model Curriculum (Mandatory – Public view)	Annexure-VII
9.	Supporting Document: Career Progression (Mandatory - Public view)	
10.	Supporting Document: Occupational Map (Mandatory)	
11.	Supporting Document: Assessment SOP (Mandatory)	Annexure-IX
12.	Any other document you wish to submit:	NA

Annexure I: 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/NS QF Level
Professional Theoretical Knowledge/Process	Knowledge about Engine, Transmission, Axle and Chassis with their function.	Practical application Of conceptual studies/theories	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	Wide ranging, factual and theoretical knowledge in broad contexts within a field of work or study	Exposure to various assembly lines, components, techniques and new technology.	4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Wide range of cognitive and practical skills required to generate solutions to specific problems in a field of work or study	Candidate have factual knowledge along with hands on skill, which support him to start his own setup.	4
Broad Learning Outcomes/Core Skill	Good logical and mathematical skill understanding of his field with good communication	Candidate will understand various model of vehicle and changes in different model.	4
Responsibility	Responsibility for output of group as well as individual	After completion of programme due to hand skills candidate will be able to assemble the component in group as well as by own.	4

Annexure II: 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	Engine		2
2	Chassis		4

3	Various types of gear boxes
4	Steering
5	Suspension System (like –Coil,Leaf spring ,Shock absorbers)
6	Electrical equipment –battery,harness system and various modulus as per models.
7	Front Axle
8	Rear Axle
9	Differential
10	Vehicle lift
11	Air compressor
12	Ammeter
13	Voltmeter
14	MultiMate

Industry Standard

1
4
4
4
4
4
1
2
1
15
15
5

15	Various cut section of tyre	1
16	Various types of break (like – Air break, hydraulic, dual break ,ABS)	4
17	Clutch	4
18	Liner measuring equipment	15
19	Precision measuring equipment	15
20	Steering alignment equipment	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Smart / White Board
2. Practice Exercise
3. Projector etc.
4. Table and chair for 30 persons

Annexure III: 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	ContactAddress	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1							

Annexure IV: 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
23-24	300	250	0	0	0	0
24-25	350	310	0	0	0	0
25-26	400	350	0	0	0	0

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
1.0	20-21	110	110	110	103	0	0	0	0	0	0	0	0
1.0	21-22	134	134	134	121		0	0	0	0	0	0	0
1.0	22-23	173	173	173	154		0	0	0	0	0	0	0

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:

JR. TECHNICIAN-AUTOMOBILE ASSEMBLY & SERVICE

Nil.

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 V: Blended Learning Blended Learning Estimated Ratio & Recommended Tools:*Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available*

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

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☐ Theory/ Lectures - Imparting theoretical and conceptual knowledge		40:60
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		40:60
3	☐ Showing Practical Demonstrations to the learners		100:0
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training		100:0
5	☐ Tutorials/ Assignments/ Drill/ Practice		40:60
6	☐ Proctored Monitoring/ Assessment/Evaluation/ Examinations		100:0
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		100:0

Annexure VI: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	YEAR (1 ST /II ND)	Assessment Criteria for Performance Criteria/LearningOutcomes	Theory Mark s	Practical Marks	Project Marks	Viva Marks
MSME/CCAAS/64/01 AutomobileTechnology		PC.1 1 Describe history automobile.	100			
		PC.2 List types of AutomobileIndustry.				
		PC.3 List Indian AutomobileIndustry				
		PC.4 Explain various types of				

MSME/CCAAS/64/01 Automobile Technology	IST YEAR	Vehicles.				
		PC.5 Explain various types ofChassis.				
		PC.6 Classify about various types ofFrame.				
		PC.7 Explain Vehicle body and theirconstruction.				
		PC.8 Explain four wheel drives.				
		PC.9 Define steering system.				
		PC.10 3Explain about SteeringFunction.				
		PC.11 Perform troubleshooting inSteering.				
		PC.12 Define Brakes.				
		PC.13Arrange various types ofBrakes				
		PC.14Define working Principle ofbrakes				
		PC.15 Explain function and type ofclutch				
		PC.16 Explain various types ofTransmission.				
		PC.17Analyze about faults, care & maintenance.				
		PC.18 Define engine.				
		PC.19 Explain various enginecomponents.				

<Approved in 37 th NSQC Meeting & Dated: 30/04/2024>		PC.20 Describe about fuel Supply & ignition system.	100	<NCVET- QG-04-AU-02390-2024-V1-MSME>
		PC.21 Discuss about intake system.		
		PC.22 Discuss about exhaust system.		
		PC.23 Explain engine cooling system.		
		PC.24 Describe engine lubricationsystem.		
	IIND YEAR	PC.25 Explain construction of frontaxle.	100	
		PC.26 Define rear axle. Explainworking principle of Rear axle		
		PC.27 Explain suspension system. Construct list of suspension components. Describe leaf spring & coil suspension system. Explain Tyreand its Parts. Define tire Rating.		
		PC.28Describe functions of Lead acidbattery. Explain self-starter, dynamo/alternator and regulator.		
		PC.29 Describe motor Vehicle Act &Driving Rules.		
		PC.30Explain Indian standard of automobile vehicles. Describe Euro-I, Euro-II, Euro-III and Euro-IV norms.		
		PC.31 Discuss on Fuel qualitystandard.		
		PC.32 Explain environmentmanagement systems for automobile vehicles.		
		PC.33Define Catalytic converters,Fuel additives		

MSME/CCAAS/64/02 MANUFACTURING TECHNOLOGY	IST YEAR	PC.1 Describe various types of manufacturing techniques. Explain advantage & disadvantage of each technique.	100			
		PC.2 Describe fitting operation. Classify various type of hand tools.				
		PC.3 Explain various joining methods like soldering, brazing and riveting.				
		PC.4 Explain lathe machine. Define about function of lathe machine. Classify types of lathe machine. Identify parts of lathe machine.				
		PC.5 Explain milling machine. Define function of milling machine. Classify various types of milling machine.				
		PC.6 Explain grinding machine. Describe the function of grinding machine. Classify various types of grinding machine.				
	IIND YEAR	PC.7 Describe Jigs and its classification.	100			
		PC.8 Describe fixture and its classification.				
		PC.9 Explain need of non-conventional machining.				
		PC.10 Describe various types of non-conventional machining.				
		PC.11 Explain advantage & disadvantages of Non-conventional machining				
		PC.12 Define CNC machine. Summarize advantages & disadvantages of CNC.				
		Pc.13 Explain classification of CNC machines.				
		PC.14 Describe Specification of CNC machines.				
		PC.15 G-code				
MSME/CCAAS/64/0 3 ENGINEERING METROLOGY		PC.1 Define metrology. Describe scope and need of metrology.	100			
		PC.2 Explain need of inspection.				
		PC.3 Illustrate measuring instruments.				
		PC.4 Explain basic linear measurement.				
		PC. 5 Basic knowledge about rule, scale				
		PC.6 Explain angle gauge.				

	IST YEAR	PC.7 Define Vernier Caliper & its types.	100			
		PC.8 Explain & measure with Vernier height Gauge.				
		PC.9 Explain & measure with Vernier Depth Gauge.				
		PC.10 Describe angular measurement.				
	IIND YEAR	PC.11 Explain optical instruments for angular measurement.				
		PC.12 Describe limit, fit and tolerance.				
		PC.13 Explain requirement of gauges.				
		PC.14 Describe classification of gauges.				
		PC.15 Describe reason of errors				
		PC.16 Classification of errors				
		PC.17 Explain importance of ISO 9000 in a organization.				
		PC.18 Describe seven tools for TQM				
		PC.19 Describe need of quality and quality control.				
		PC.20 Define statistical quality control.				
MSME/CCAAS/64/04 Industrial Legislation and safety	I ST YEAR	PC.1 Illustrate importance of Industrial safety.	100			
		PC.2 Describe the Importance of Industrial Legislation for employees.				
		PC.3 Define objective and scope of factory act.				
		PC.4 Explain workmen's compensation Act 1923 & 1984.				
		PC.5 Describe workman compensation Act 1923.				

<Approved in 37 th NSQC Meeting & Dated 30/04/2024>		PC.6 Explain payment of Wages Act, 1936.	QUALIFICATION FILE-LTT	<NCVET- QG-04-AU-02390-2024-V1-MSME>		
		PC.7 Use and apply Employee's Provident fund and Gratuity Act, 1952.		100		
		PC.8 Explain trade union Act, 1926.				
		PC.9 Illustrate responsibility and duties of workmen.				
		PC.10 Describe 'X' and 'Y' principals of Douglas Mac-Grager.				
		PC.11 Explain the National Population Policy.				
		PC.12 Explain "Health for all by 2000 A.D."				
		PC.13 Explain community health volunteers.				

		PC.14 Define urban health and F.W. services.			
		PC.15 Define Occupational Hazards & safety.			
		PC.16 Use First aid equipments. Use			
		PC.17 Fire-Safety Equipment.			
		PC.18 Describe Safety Legislation.			
	II ND YEAR	PC.19 Define personal management.			
		PC.20 Explain inventory control.			
		PC.21 Describe product and site selection			
		PC.22 Importance of skill in industries.			
		PC. 23 Explain the National Population Policy			
		PC.24 Explain "Health for all by 2000 A.D."			
		PC. 25 Explain community health volunteers			
		PC. 26 Define urban health and F.W. services			
		PC. 27 Illustrate the causes of Industrial accidents.			
		PC. 28 Define Occupational Hazards & safety.			
		PC. 29 Use First aid equipments.			
		PC. 30 Use Fire-Safety Equipment.			
		PC. 31 Describe Safety Legislation.			

<Approved in 37 th NSQC Meeting & Dated 30/04/2024>		PC. 32 Describe Elements of Environmental Planning and Management.	100			
		PC. 33 Classify various types of Pollution and its Resources.				
MSME/CCAAS/64/05 EMPLOYABILITY SKILL	IST YEAR	PC.1 Discuss the Employability Skills required for jobs in various industries	100			
		PC.2 List different learning and employability related GOI and private portals and their usage.				

		PC.3 Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen			
		PC.4 Show how to practice different environmentally sustainable practices.			
		PC.5 Discuss importance of relevant 21st century skills.			
		PC.6 Exhibit 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life.			
		PC.7 Describe the benefits of continuous learning.			
		PC.8 Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone.			
		PC.9 Write a short note/paragraph /letter/e-mail using basic English			
		PC.10 Create a career development plan with well-defined short- and long-term goals.			
		PC.11 Demonstrate how to behave, communicate, and conduct oneself appropriately with all genders and PwD			
		PC.12 Discuss the significance of escalating sexual harassment issues as per POSH act.			

		PC.33 Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively. PC.34 Discuss the significance of maintaining hygiene and confidence during an interview. PC.35 Perform a mock interview. PC.36 List the steps for searching and registering for apprenticeship opportunities				
MSME/CCAAS/64/06 Automobile Practice	IST YEAR	PC.1 Assemble and dismantle various parts of engine	500			
		PC.2 Assemble various parts of axle, differential, hub				
		PC.3 Check correct quality parameters like –tooth patterns, end play and clearance between crown and pinion and star gear and sun gears				
		PC.4 Assemble various parts of chassis, break, clutch.				
		PC.5 Perform harness fitting, door fitting and other cabin making operations.				
		PC.6 Perform Assembly operation like main shaft assembly, counter shaft assembly, bearing fitting, interlock mechanism, cable setting.				
		PC.7 Perform Assembly operation like wheel cylinder, brake assembly.				

	IIND YEAR	PC.8 Perform Assembly operation of main Shaft.			
		PC.9 Perform Assembly operation of counter shaft .			
		PC.11 Perform assembly of PTO.			
		PC.12 Do Test Transmission like- gear shifting ,unusual noise , transmission slip			
			400		

Annexure: VII 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 are assigned to the Central MSME NSQF Examination Cell via email for the assessment.
- Central MSME NSQF Examination Cell sends the assessment confirmation to respective TC/AB
- Central MSME NSQF Examination Cell deploys the certified Assessor for executing the assessment at respective TC/AB via online / offline mode.
- Central MSME NSQF Examination Cell & respective TC/AB Internal Examination Cell monitors the assessment process & records

2. Testing Environment:

- Central MSME NSQF Examination Cell confirms the Assessment location, date and time
- For number of candidates more than 30 separate assessors are assigned for the assessment.
- Central MSME NSQF Examination Cell & respective assessor confirms that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Each TC Submits the Question Bank for the individual subject Theory & Practice separately, submits to Central MSME NSQF Examination Cell and it is verified by the Central MSME NSQF Examination Cell Committee members.
- Questions are mapped to the specified assessment criteria
- All the assessors & Trainers are well qualified & Trained to carry out the specified task.

4. Types of evidence or evidence-gathering protocol:

- Online Link is sent by Central MSME NSQF Examination Cell to respective TC & Assessor. Reporting of the assessor from assessment location is verified by the Central MSME NSQF Examination Cell through the online Meeting Link. Students are also required to join for the online link for verification by the Central MSME NSQF Examination Cell
- Assessment Photographs are shared with the Central MSME NSQF Examination Cell & are also with the respective TC.

5. Method of verification or validation:

- Online Link is sent by Central MSME NSQF Examination Cell to respective TC & Assessor. Reporting of the assessor from assessment location is verified by the Central MSME NSQF Examination Cell through the online Meeting Link. Students are also required to join for the online link for verification by the Central MSME NSQF Examination Cell

6. Method for assessment documentation, archiving, and access

- The Assessment records are shared with Central MSME NSQF Examination Cell & also stored at respective TC.
- Assessor fills the assessment report and shares with the Central MSME NSQF Examination CellOn the Job:
- The candidate must score 60% marks to successfully complete the OJT.
- Learner will be assessed on the basis of OJT report followed by Viva
- Assessment will ensure that the Learner is able to:
 - Effective engagement with the customers / Subordinates and team
 - Understand the working of various tools and equipment
 - Understand the working environment of the industry

Annexure VI: 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.

<# NSQC Meeting & Date of NSQC Meeting> Qualification	QUALIFICATION FILE <STT/LTT/APPRENTICESHIP> <NCVET-NQR Code> 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.
Short Term Training (STT)	STT/ Short -term skilling means any vocational training program undertaken for less than a year (Theory + Practical + OJT). https://ncvet.gov.in/sites/default/files/NCVET.pdf