



Qualification Pack

JR. TECHNICIAN-AUTOMOBILE ASSEMBLY & SERVICE

QP Code: MSME/ASC/Q1501

Version: 1.0

NSQF Level: 4.0

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Qualification Pack

Contents

MSME/ASC/Q1501: JR. TECHNICIAN-AUTOMOBILE ASSEMBLY & SERVICE	3
<i>Brief Job Description</i>	3
Applicable National Occupational Standards (NOS)	3
<i>Compulsory NOS</i>	3
<i>Qualification Pack (QP) Parameters</i>	3
MSME/ASC/N1514: On job training	5
MSME/ASC/N1513: Automobile Practice	8
MSME/ASC/N1510: Engineering Metrology	11
MSME/ASC/N1509: MANUFACTURING TECHNOLOGY	14
MSME/ASC/N1508: Automobile Technology	17
MSME/ASC/N1507: On job training	20
MSME/ASC/N1506: Automobile Practice	23
MSME/ASC/N1503: Engineering Metrology	26
MSME/ASC/N1502: Manufacturing Technology	29
MSME/ASC/N1501: Automobile Technology	32
MSME/ASC/N1512: MSME/CCAAS/64/05 EMPLOYABILITY SKILL	36
MSME/ASC/N1511: Industrial Legislation and safety	41
MSME/ASC/N1505: Employability Skill 000	44
MSME/ASC/N1504: Industrial Legislation and safety	49
Assessment Guidelines and Weightage	52
<i>Assessment Guidelines</i>	52
<i>Assessment Weightage</i>	52
Acronyms	54
Glossary	55



Qualification Pack

MSME/ASC/Q1501: JR. TECHNICIAN-AUTOMOBILE ASSEMBLY & SERVICE

Brief Job Description

To be expertise in automobile assembly & servicing operations

Personal Attributes

To be expertise in automobile assembly & servicing operations

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [MSME/ASC/N1514: On job training](#)
2. [MSME/ASC/N1513: Automobile Practice](#)
3. [MSME/ASC/N1510: Engineering Metrology](#)
4. [MSME/ASC/N1509: MANUFACTURING TECHNOLOGY](#)
5. [MSME/ASC/N1508: Automobile Technology](#)
6. [MSME/ASC/N1507: On job training](#)
7. [MSME/ASC/N1506: Automobile Practice](#)
8. [MSME/ASC/N1503: Engineering Metrology](#)
9. [MSME/ASC/N1502: Manufacturing Technology](#)
10. [MSME/ASC/N1501: Automobile Technology](#)
11. [MSME/ASC/N1512: MSME/CCAAS/64/05 EMPLOYABILITY SKILL](#)
12. [MSME/ASC/N1511: Industrial Legislation and safety](#)
13. [MSME/ASC/N1505: Employability Skill 000](#)
14. [MSME/ASC/N1504: Industrial Legislation and safety](#)

Qualification Pack (QP) Parameters

Sector	Automotive
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Qualification Pack

Sub-Sector	Auto Finance and Insurance
Occupation	Automotive Services
Country	India
NSQF Level	4.0
Credits	80
Aligned to NCO/ISCO/ISIC Code	7231/Automobile technician
Minimum Educational Qualification & Experience	10th grade pass (10th Grade Pass or equivalent) with NA of experience
Minimum Level of Education for Training in School	
Pre-Requisite License or Training	NA
Minimum Job Entry Age	18 Years
Last Reviewed On	30/04/2024
Next Review Date	30/04/2027
NSQF Approval Date	30/04/2024
Version	1.0
Reference code on NQR	NCVET- QG-04-AU-02390-2024-V1-MSME
NQR Version	1.0



Qualification Pack

MSME/ASC/N1514: On job training

Description

On job training

Scope

The scope covers the following :

- On job training

Elements and Performance Criteria

To be competent, the user/individual on the job must be able to:

PC1. ON THE BASIS OF REPORT



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	-	100	-	-
PC1. ON THE BASIS OF REPORT	-	-	-	-
NOS Total	-	100	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1514
NOS Name	On job training
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	20
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1513: Automobile Practice

Description

After completion of course Trainee should be able to assemble various parts of engine (four wheeler like truck, bus and tractor)

Scope

The scope covers the following :

- After completion of course Trainee should be able to assemble various parts of engine (four wheeler like truck, bus and tractor)

Elements and Performance Criteria

MSME/CCAAS/64/06 Automobile Practice

To be competent, the user/individual on the job must be able to:

- PC1.** • Perform Assembly operation
• of main Shaft.
- PC2.** • Perform Assembly operation
• of counter shaft .
- PC3.** Perform assembly of PTO.
- PC4.** • Do Test Transmission like gear shifting ,unusual noise ,
• transmission slip



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/06 Automobile Practice</i>	-	400	-	-
PC1. • Perform Assembly operation • of main Shaft.	-	-	-	-
PC2. • Perform Assembly operation • of counter shaft .	-	-	-	-
PC3. Perform assembly of PTO.	-	-	-	-
PC4. • Do Test Transmission like gear shifting ,unusual noise , • transmission slip	-	-	-	-
NOS Total	-	400	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1513
NOS Name	Automobile Practice
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	10
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1510: Engineering Metrology

Description

Understand the Scope of metrology

Scope

The scope covers the following :

- Understand the Scope of metrology

Elements and Performance Criteria

MSME/CCAAS/64/0 3ENGINEERING METROLOGY

To be competent, the user/individual on the job must be able to:

- PC1.** Explain optical instruments for angular measurement.
- PC2.** Describe limit, fit and tolerance.
- PC3.** Explain requirement of gauges.
- PC4.** Describe classification of gauges.
- PC5.** Describe reason of errors
- PC6.** Classification of errors
- PC7.** Explain importance of ISO9000 in a organization.
- PC8.** Describe seven tools for TQM
- PC9.** Describe need of quality and quality control.
- PC10.** Define statistical quality control.



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/0 3ENGINEERING METROLOGY</i>	100	-	-	-
PC1. Explain optical instruments for angular measurement.	-	-	-	-
PC2. Describe limit, fit and tolerance.	-	-	-	-
PC3. Explain requirement of gauges.	-	-	-	-
PC4. Describe classification of gauges.	-	-	-	-
PC5. Describe reason of errors	-	-	-	-
PC6. Classification of errors	-	-	-	-
PC7. Explain importance of ISO9000 in a organization.	-	-	-	-
PC8. Describe seven tools for TQM	-	-	-	-
PC9. Describe need of quality and quality control.	-	-	-	-
PC10. Define statistical quality Control.	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1510
NOS Name	Engineering Metrology
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1509: MANUFACTURING TECHNOLOGY

Description

Understand the Manufacturing techniques,

Scope

The scope covers the following :

- Understand the Manufacturing techniques,

Elements and Performance Criteria

MSME/CCAAS/64/02 MANUFACTURING TECHNOLOGY

To be competent, the user/individual on the job must be able to:

- PC1.** Describe Jigs and its classification.
- PC2.** Describe fixture and its classification
- PC3.** Explain need of non-conventional machining
- PC4.** Describe various types of non-conventional machining.
- PC5.** Explain advantage & disadvantages of Non -conventional machining
- PC6.**
 - Define CNC machine.
 - Summarize advantages & disadvantages of CNC
- PC7.** Explain classification of CNC machines.
- PC8.**
 - Describe Specification
 - of CNC machines
- PC9.** G-code
- PC10.** M-code



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/02 MANUFACTURING TECHNOLOGY</i>	100	-	-	-
PC1. Describe Jigs and its classification.	-	-	-	-
PC2. Describe fixture and its classification	-	-	-	-
PC3. Explain need of non-conventional machining	-	-	-	-
PC4. Describe various types of non-conventional machining.	-	-	-	-
PC5. Explain advantage & disadvantages of Non-conventional machining	-	-	-	-
PC6. - Define CNC machine. - Summarize advantages & disadvantages of CNC	-	-	-	-
PC7. Explain classification of CNC machines.	-	-	-	-
PC8. - Describe Specification - of CNC machines	-	-	-	-
PC9. G-code	-	-	-	-
PC10. M-code	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1509
NOS Name	MANUFACTURING TECHNOLOGY
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1508: Automobile Technology

Description

Understand processes and equipment requirement to complete the task.

Scope

The scope covers the following :

- Understand processes and equipment requirement to complete the task.

Elements and Performance Criteria

Automobile Technology MSME/CCAAS/ 64/01

To be competent, the user/individual on the job must be able to:

- PC1.** Explain construction of front axle.
- PC2.** Define rear axle. Explain working principle of Rear axle
- PC3.**
 - Explain suspension system. Construct list of suspension components. Describe leaf spring &
 - coil suspension system. Explain Tyre and its Parts. Define tire Rating
- PC4.**
 - Describe functions of Lead acid battery. Explain self-starter,
 - dynamo/alternator and regulator.
- PC5.** Describe motor Vehicle Act & Driving Rules
- PC6.**
 - Explain Indian standard of automobile vehicles. Describe Euro-I, Euro-II,
 - Euro-III and Euro-IV norms.
- PC7.** Discuss on Fuel quality standard.
- PC8.** Explain environment management systems for automobile vehicles.
- PC9.** Define Catalytic converters, Fuel additives



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Automobile Technology MSME/CCAAS/ 64/01</i>	100	-	-	-
PC1. Explain construction of front axle.	-	-	-	-
PC2. Define rear axle. Explain working principle of Rear axle	-	-	-	-
PC3. - Explain suspension system. Construct list of suspension components. Describe - leaf spring & - coil suspension system. Explain Tyre and its Parts. Define tire Rating	-	-	-	-
PC4. - Describe functions of Lead acid battery. Explain self-starter, - dynamo/alternator and regulator.	-	-	-	-
PC5. Describe motor Vehicle Act & Driving Rules	-	-	-	-
PC6. - Explain Indian standard of automobile vehicles. Describe Euro-I, Euro-II, - Euro-III and Euro-IV norms.	-	-	-	-
PC7. Discuss on Fuel quality standard.	-	-	-	-
PC8. Explain environment management systems for automobile vehicles.	-	-	-	-
PC9. Define Catalytic converters, Fuel additives	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1508
NOS Name	Automobile Technology
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	3
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1507: On job training

Description

On job training

Scope

The scope covers the following :

- On job training

Elements and Performance Criteria

To be competent, the user/individual on the job must be able to:

PC1. AS PER THE REPORT



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	-	100	-	-
PC1. AS PER THE REPORT	-	100	-	-
NOS Total	-	100	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1507
NOS Name	On job training
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	20
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1506: Automobile Practice

Description

After completion of course Trainee should be able to assemble various parts of engine (four wheeler like truck, bus and tractor)

Scope

The scope covers the following :

- After completion of course Trainee should be able to assemble various parts of engine (four wheeler like truck, bus and tractor)

Elements and Performance Criteria

MSME/CCAAS/64/06 Automobile Practice

To be competent, the user/individual on the job must be able to:

- PC1.** • Assemble and dismantle
 - various parts of engine
- PC2.** • Assemble various parts of axle,
 - differential ,hub
- PC3.** • Check correct quality
 - parameters like -tooth patterns, end
 - play and clearance between crown and
 - pinion and star gear and sun gears
- PC4.** • Assemble various parts of
 - chassis, break, clutch .
- PC5.** • Perform harness fitting, door
 - fitting and other cabin making
 - operations.
- PC6.** • Perform Assembly operation
 - like main shaft assembly, counter
 - shaft assembly, bearing fitting ,interlock mechanism ,cable setting.
- PC7.** • Perform Assembly operation
 - like wheel cylinder, brake assembly



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/06 Automobile Practice</i>	-	400	-	-
PC1. • Assemble and dismantle • various parts of engine	-	-	-	-
PC2. • Assemble various parts of axle, • differential ,hub	-	-	-	-
PC3. • Check correct quality • parameters like -tooth patterns, end • play and clearance between crown and • pinion and star gear and sun gears	-	-	-	-
PC4. • Assemble various parts of • chassis, break, clutch .	-	-	-	-
PC5. • Perform harness fitting, door • fitting and other cabin making • operations.	-	-	-	-
PC6. • Perform Assembly operation • like main shaft assembly, counter • shaft assembly, bearing fitting ,interlock mechanism ,cable setting.	-	-	-	-
PC7. • Perform Assembly operation • like wheel cylinder, brake assembly	-	-	-	-
NOS Total	-	400	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1506
NOS Name	Automobile Practice
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	10
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1503: Engineering Metrology

Description

Understand the Scope of metrology

Scope

The scope covers the following :

- Understand the Scope of metrology

Elements and Performance Criteria

MSME/CCAAS/64/0 3ENGINEERING METROLOGY

To be competent, the user/individual on the job must be able to:

- PC1.** Define metrology. Describe scope and need of metrology.
- PC2.** Explain need of inspection
- PC3.** Illustrate measuring instruments
- PC4.** Explain basic linear measurement
- PC5.** Basic knowledge about rule, scale
- PC6.** Explain angle gauge.
- PC7.** Define Vernier Caliper & its types.
- PC8.** Explain & measure with Vernier height Gauge.
- PC9.** Explain & measure with Vernier Depth Gauge.
- PC10.** Describe angular measurement



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/0 3ENGINEERING METROLOGY</i>	100	-	-	-
PC1. Define metrology. Describe scope and need of metrology.	-	-	-	-
PC2. Explain need of inspection	-	-	-	-
PC3. Illustrate measuring instruments	-	-	-	-
PC4. Explain basic linear measurement	-	-	-	-
PC5. Basic knowledge about rule, scale	-	-	-	-
PC6. Explain angle gauge.	-	-	-	-
PC7. Define Vernier Caliper & its types.	-	-	-	-
PC8. Explain & measure with Vernier height Gauge.	-	-	-	-
PC9. Explain & measure with Vernier Depth Gauge.	-	-	-	-
PC10. Describe angular measurement	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1503
NOS Name	Engineering Metrology
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1502: Manufacturing Technology

Description

Understand the Manufacturing techniques,

Scope

The scope covers the following :

- Understand the Manufacturing techniques,

Elements and Performance Criteria

MSME/CCAAS/64/02 MANUFACTURING TECHNOLOGY

To be competent, the user/individual on the job must be able to:

- PC1.** • Describe various types of manufacturing techniques.
• Explain advantage & disadvantage of each technique.
- PC2.** Describe fitting operation. Classify various type of hand tools.
- PC3.** Explain various joining methods like soldering, brazing and riveting.
- PC4.** • Explain lathe machine. Define about function of lathe machine.
• Classify types of lathe machine. Identify parts of lathe machine.
- PC5.** • Explain milling machine. Define function of milling machine. Classify various types of milling machine.
- PC6.** • Explain grinding machine. Describe the function of grinding machine. Classify various types of grinding machine.



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/02 MANUFACTURING TECHNOLOGY</i>	100	-	-	-
PC1. - Describe various types of manufacturing techniques. - Explain advantage & disadvantage of each technique.	-	-	-	-
PC2. Describe fitting operation. Classify various type of handtools.	-	-	-	-
PC3. Explain various joining methods like soldering brazing and riveting.	-	-	-	-
PC4. - Explain lathe machine. Define about function of lathe machine. - Classify types of lathe machine. - Identify parts of lathe machine.	-	-	-	-
PC5. Explain milling machine. Define function of milling machine. Classify various types of milling machine.	-	-	-	-
PC6. Explain grinding machine. Describe the function of grinding machine. Classify various types of grinding machine.	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1502
NOS Name	Manufacturing Technology
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	2
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1501: Automobile Technology

Description

Understand processes and equipment requirement to complete the task.

Scope

The scope covers the following :

- Understand processes and equipment requirement to complete the task.

Elements and Performance Criteria

Automobile Technology MSME/CCAAS/ 64/01

To be competent, the user/individual on the job must be able to:

- PC1.** Describe history automobile.
- PC2.** List types of Automobile Industry.
- PC3.** List Indian Automobile Industry
- PC4.** Explain various types of Vehicles.
- PC5.** Explain various types of Chassis.
- PC6.** Classify about various types of Frame.
- PC7.** Explain Vehicle body and their construction.
- PC8.** Explain four wheel drives.
- PC9.** Define steering system.
- PC10.** Explain about Steering Function.
- PC11.** Perform troubleshooting in Steering.
- PC12.** Define Brakes
- PC13.** Arrange various types of Brakes
- PC14.** Define working Principle of brakes
- PC15.** Explain function and type of clutch
- PC16.** Explain various types of Transmission.
- PC17.**
 - Analyze about faults, care &
 - maintenance.
- PC18.** Define engine.
- PC19.** Explain various engine components.
- PC20.** Describe about fuel Supply & Ignition system
- PC21.** Discuss about intake system
- PC22.** Discuss about exhaust system.
- PC23.** Explain engine cooling system
- PC24.** Describe engine lubrication system



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Automobile Technology MSME/CCAAS/ 64/01</i>	100	-	-	-
PC1. Describe history automobile.	-	-	-	-
PC2. List types of AutomobileIndustry.	-	-	-	-
PC3. List Indian AutomobileIndustry	-	-	-	-
PC4. Explain various types of Vehicles.	-	-	-	-
PC5. Explain various types ofChassis.	-	-	-	-
PC6. Classify about various types ofFrame.	-	-	-	-
PC7. Explain Vehicle body and theirconstruction.	-	-	-	-
PC8. Explain four wheel drives.	-	-	-	-
PC9. Define steering system.	-	-	-	-
PC10. Explain about SteeringFunction.	-	-	-	-
PC11. Perform troubleshooting inSteering.	-	-	-	-
PC12. Define Brakes	-	-	-	-
PC13. Arrange various types ofBrakes	-	-	-	-
PC14. Define working Principle of brakes	-	-	-	-
PC15. Explain function and type of clutch	-	-	-	-
PC16. Explain various types ofTransmission.	-	-	-	-
PC17. • Analyze about faults, care & • maintenance.	-	-	-	-
PC18. Define engine.	-	-	-	-
PC19. Explain various enginecomponents.	-	-	-	-
PC20. Describe about fuel Supply &ignition system	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC21. Discuss about intake system	-	-	-	-
PC22. Discuss about exhaust system.	-	-	-	-
PC23. Explain engine cooling system	-	-	-	-
PC24. Describe engine lubricationsystem	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1501
NOS Name	Automobile Technology
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	4
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1512: MSME/CCAAS/64/05 EMPLOYABILITY SKILL

Description

Understand about employability .

Scope

The scope covers the following :

- Understand about employability .

Elements and Performance Criteria

MSME/CCAAS/64/05 EMPLOYABILITY SKILL

To be competent, the user/individual on the job must be able to:

- PC1.** Discuss the Employability Skills required for jobs in various industries
- PC2.** List different learning and employability related GOI and private portals and their usage.
- PC3.**
 - 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
- PC4.** Show how to practice different environmentally sustainable practices.
- PC5.** Discuss importance of relevant 21st century skills.
- PC6.**
 - 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.
- PC7.** Describe the benefits of continuous learning
- PC8.**
 - Show how to use basic English sentences for everyday conversation in different
 - contexts, in person and over the telephone.
- PC9.** Write a short note/paragraph /letter/e -mail using basic English
- PC10.** Create a career development plan with well-defined short- and long-term goals.
- PC11.**
 - Demonstrate how to behave, communicate, and conduct oneself appropriately with all
 - genders and PwD
- PC12.** Discuss the significance of escalating sexual harassment issues as per POSH act.
- PC13.**
 - Use various offline
 - and online job search
 - sources such as
 - employment exchanges,
 - recruitment agencies, and
 - job portals respectively
- PC14.**
 - Discuss the significance of
 - maintaining hygiene and confidence
 - during an interview.
- PC15.** Perform a mock interview.



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- PC16.**
- List the steps for searching and
 - registering for apprenticeship
 - opportunities



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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/05 EMPLOYABILITY SKILL</i>	100	-	-	-
PC1. Discuss the Employability Skills required for jobs in various industries	-	-	-	-
PC2. List different learning and employability related GOI and private portals and their usage.	-	-	-	-
PC3. • 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	-	-	-	-
PC4. Show how to practice different environmentally sustainable practices.	-	-	-	-
PC5. Discuss importance of relevant 21st century skills.	-	-	-	-
PC6. • 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.	-	-	-	-
PC7. Describe the benefits of continuous learning	-	-	-	-
PC8. • Show how to use basic English sentences for everyday conversation in different • contexts, in person and over the telephone.	-	-	-	-
PC9. Write a short note/paragraph /letter/e -mail using basic English	-	-	-	-
PC10. Create a career development plan with well-defined short- and long-term goals.	-	-	-	-
PC11. • Demonstrate how to behave, communicate, and conduct oneself appropriately with all • genders and PwD	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Discuss the significance of escalating sexual harassment issues as per POSH act.	-	-	-	-
PC13. • Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively	-	-	-	-
PC14. • Discuss the significance of maintaining hygiene and confidence during an interview.	-	-	-	-
PC15. Perform a mock interview.	-	-	-	-
PC16. • List the steps for searching and registering for apprenticeship opportunities	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1512
NOS Name	MSME/CCAAS/64/05 EMPLOYABILITY SKILL
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	4
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1511: Industrial Legination and safety

Description

Understand general introduction industrial safety and legislation

Scope

The scope covers the following :

- Understand general introduction industrial safety and legislation

Elements and Performance Criteria

MSME/CCAAS/64/04 Industrial Legination and safety

To be competent, the user/individual on the job must be able to:

- PC1.** Define personal management.
- PC2.** Explain inventory control
- PC3.** Describe product and siteselection
- PC4.** Importance of skill in industries.
- PC5.** Explain the National Population Policy
- PC6.** Explain "Health for allby2000 A.D."
- PC7.** Explain community health volunteers
- PC8.** Define urban health and F.W. services
- PC9.** Illustrate the causes of Industrial accidents.
- PC10.** Define Occupational Hazards & safety.
- PC11.** Use First aid equipments.
- PC12.** Use Fire-SafetyEquipment.
- PC13.** Describe Safety Legislation.
- PC14.** Describe Elements of Environmental Planning and Management
- PC15.** Classify various types of Pollution and its Resources



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/04 Industrial Legislation and safety</i>	100	-	-	-
PC1. Define personal management.	-	-	-	-
PC2. Explain inventory control	-	-	-	-
PC3. Describe product and siteselection	-	-	-	-
PC4. Importance of skill in industries.	-	-	-	-
PC5. Explain the National Population Policy	-	-	-	-
PC6. Explain “Health for allby2000 A.D.”	-	-	-	-
PC7. Explain community health volunteers	-	-	-	-
PC8. Define urban health and F.W. services	-	-	-	-
PC9. Illustrate the causes of Industrial accidents.	-	-	-	-
PC10. Define Occupational Hazards & safety.	-	-	-	-
PC11. Use First aid equipments.	-	-	-	-
PC12. Use Fire-SafetyEquipment.	-	-	-	-
PC13. Describe Safety Legislation.	-	-	-	-
PC14. Describe Elements of Environmental Planning and Management	-	-	-	-
PC15. Classify various types of Pollution and its Resources	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1511
NOS Name	Industrial Legination and safety
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1505: Employability Skill 000

Description

Understand about employability .

Scope

The scope covers the following :

- Understand about employability .

Elements and Performance Criteria

MSME/CCAAS/64/05 EMPLOYABILITY SKILL

To be competent, the user/individual on the job must be able to:

- PC1.** Discuss the Employability Skills required for jobs in various industries
- PC2.** List different learning and employability related GOI and private portals and their usage.
- PC3.**
 - 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
- PC4.** Show how to practice different environmentally sustainable practices.
- PC5.** Discuss importance of relevant 21st century skills.
- PC6.**
 - 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.
- PC7.** Describe the benefits of continuous learning
- PC8.**
 - Show how to use basic English sentences for everyday conversation in different
 - contexts, in person and over the telephone.
- PC9.** Write a short note/paragraph /letter/e -mail using basic English
- PC10.** Create a career development plan with well-defined short- and long-term goals.
- PC11.**
 - Demonstrate how to behave, communicate, and conduct oneself appropriately with all
 - genders and PwD
- PC12.** Discuss the significance of escalating sexual harassment issues as per POSH act.
- PC13.**
 - Use various offline
 - and online job search
 - sources such as
 - employment exchanges,
 - recruitment agencies, and
 - job portals respectively
- PC14.**
 - Discuss the significance of
 - maintaining hygiene and confidence
 - during an interview.
- PC15.** Perform a mock interview.



Qualification Pack

- PC16.**
- List the steps for searching and
 - registering for apprenticeship
 - opportunities



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/05 EMPLOYABILITY SKILL</i>	100	-	-	-
PC1. Discuss the Employability Skills required for jobs in various industries	-	-	-	-
PC2. List different learning and employability related GOI and private portals and their usage.	-	-	-	-
PC3. • 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	-	-	-	-
PC4. Show how to practice different environmentally sustainable practices.	-	-	-	-
PC5. Discuss importance of relevant 21st century skills.	-	-	-	-
PC6. • 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.	-	-	-	-
PC7. Describe the benefits of continuous learning	-	-	-	-
PC8. • Show how to use basic English sentences for everyday conversation in different • contexts, in person and over the telephone.	-	-	-	-
PC9. Write a short note/paragraph /letter/e -mail using basic English	-	-	-	-
PC10. Create a career development plan with well-defined short- and long-term goals.	-	-	-	-
PC11. • Demonstrate how to behave, communicate, and conduct oneself appropriately with all • genders and PwD	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC12. Discuss the significance of escalating sexual harassment issues as per POSH act.	-	-	-	-
PC13. • Use various offline and online job search sources such as employment exchanges, recruitment agencies, and job portals respectively	-	-	-	-
PC14. • Discuss the significance of maintaining hygiene and confidence during an interview.	-	-	-	-
PC15. Perform a mock interview.	-	-	-	-
PC16. • List the steps for searching and registering for apprenticeship opportunities	-	-	-	-
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1505
NOS Name	Employability Skill 000
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	2
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024



Qualification Pack

MSME/ASC/N1504: Industrial Legislation and safety

Description

Understand general introduction industrial safety and legislation

Scope

The scope covers the following :

- Understand general introduction industrial safety and legislation

Elements and Performance Criteria

MSME/CCAAS/64/04 Industrial Legination and safety

To be competent, the user/individual on the job must be able to:

- PC1.** Illustrate importance of Industrial safety
- PC2.** Describe the Importance of Industrial Legislation for employees.
- PC3.** Define objective and scope of factory act.
- PC4.** Explain workmen's compensation Act 1923 & 1984.
- PC5.** Describe workman compensation Act 1923.
- PC6.** Explain payment of Wages Act, 1936.
- PC7.** Use and apply Employee's Provident fund and Gratuity Act, 1952.
- PC8.** Explain trade union Act, 1926.
- PC9.** Illustrate responsibility and duties of workmen.
- PC10.** Describe 'X' and 'Y' principles of Douglas Mac-Grager.
- PC11.** Explain the National Population Policy.
- PC12.** Explain "Health for all by 2000 A.D."
- PC13.** Explain community health volunteers.
- PC14.**
 - Define urban health and
 - F.W. services.
- PC15.** Define Occupational Hazards & safety
- PC16.** Use First aid equipments. Use
- PC17.** Fire-Safety Equipment
- PC18.** Describe Safety Legislation.



Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>MSME/CCAAS/64/04 Industrial Legislation and safety</i>	100	-	-	-
PC1. Illustrate importance of Industrial safety	-	-	-	-
PC2. Describe the Importance of Industrial Legislation for employees.	-	-	-	-
PC3. Define objective and scope of factory act.	-	-	-	-
PC4. Explain workmen's compensation Act 1923 & 1948.	-	-	-	-
PC5. Describe workman compensation Act 1923.	-	-	-	-
PC6. Explain payment of Wages Act, 1936.	-	-	-	-
PC7. Use and apply Employee's Provident fund and Gratuity Act, 1952.	-	-	-	-
PC8. Explain trade union Act, 1926.	-	-	-	-
PC9. Illustrate responsibility and duties of workmen.	-	-	-	-
PC10. Describe 'X' and 'Y' principles of Douglas Mac-Grager.	-	-	-	-
PC11. Explain the National Population Policy.	-	-	-	-
PC12. Explain "Health for all by 2000 A.D."	-	-	-	-
PC13. Explain community health volunteers.	-	-	-	-
PC14. • Define urban health and • F.W. services.	-	-	-	-
PC15. Define Occupational Hazards & safety	-	-	-	-
PC16. Use First aid equipments. Use	-	-	-	-
PC17. Fire-Safety Equipment	-	-	-	-
PC18. Describe Safety Legislation.	-	-	-	-



Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
NOS Total	100	-	-	-



Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	MSME/ASC/N1504
NOS Name	Industrial Legislation and safety
Sector	Automotive
Sub-Sector	
Occupation	Automotive Services
NSQF Level	4.0
Credits	1
Version	1.0
Last Reviewed Date	30/04/2024
Next Review Date	30/04/2027
NSQC Clearance Date	30/04/2024

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

As per QP

Minimum Aggregate Passing % at QP Level : 40

(Please note: Every Trainee should score a minimum aggregate passing percentage as specified above, to successfully clear the Qualification Pack assessment.)

Minimum Passing % at NOS Level: 40

(Please note: A Trainee must score the minimum percentage for each NOS separately as well as on the QP as a whole.)

Assessment Weightage

Compulsory NOS



Qualification Pack

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
MSME/ASC/N1514.On job training	-	100	-	-	100	5
MSME/ASC/N1513.Automobile Practice	-	400	-	-	400	5
MSME/ASC/N1510.Engineering Metrology	100	-	-	-	100	5
MSME/ASC/N1509.MANUFACTURING TECHNOLOGY	100	-	-	-	100	5
MSME/ASC/N1508.Automobile Technology	100	-	-	-	100	5
MSME/ASC/N1507.On job training	-	100	-	-	100	5
MSME/ASC/N1506.Automobile Practice	-	400	-	-	400	5
MSME/ASC/N1503.Engineering Metrology	100	-	-	-	100	5
MSME/ASC/N1502.Manufacturing Technology	100	-	-	-	100	5
MSME/ASC/N1501.Automobile Technology	100	-	-	-	100	5
MSME/ASC/N1512.MSME/CCAAS/64/05 EMPLOYABILITY SKILL	100	-	-	-	100	5
MSME/ASC/N1511.Industrial Legination and safety	100	-	-	-	100	5
MSME/ASC/N1505.Employability Skill 000	100	-	-	-	100	20
MSME/ASC/N1504.Industrial Legislation and safety	100	-	-	-	100	20
Total	1000	1000	-	-	2000	100



Qualification Pack

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training



Qualification Pack

Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.



Qualification Pack

Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.