

Qualification Pack

Two Wheeler Service Technician

Electives: Perform Two wheeler Electrical and Electronics minor Repair/
Perform Three Wheeler Additional Mechanical Parts Repair

QP Code: ASC/Q1411

Version: 6.0

NSQF Level: 4

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ASC/Q1411: Two Wheeler Service Technician

Brief Job Description

A Two Wheeler Service Technician is responsible for the repair, routine servicing and maintenance (including electrical and mechanical aggregates) of two wheeler vehicles

Personal Attributes

An individual in this job must have good communication and interpersonal skills. The person should be patient, organised, team-oriented, customer centric and have the ability to work for long hours in adverse conditions. The individual should be a keen observer and have an eye for detail and quality.

Applicable National Occupational Standards (NOS)

Compulsory NOS:

1. [ASC/N9801: Organize work and resources \(Service\)](#)
2. [DGT/VSQ/N0102: Employability Skills \(60 Hours\)](#)
3. [ASC/N1420: Perform routine servicing and minor repairs](#)

Electives(*mandatory to select at least one*):

Elective 1: Perform Two wheeler Electrical and Electronics minor Repair

This NOS is about diagnosing and performing minor electrical and electronics repairs on two-wheelers, including basic battery maintenance, light system repair, fuse and wiring checks, and basic sensor inspections following OEM Standard Operating Procedures (SOPs)

1. [ASC/N1300: Perform Two wheeler Electrical and Electronics minor Repair](#)

Elective 2: Perform Three Wheeler Additional Mechanical Parts Repair

This NOS is about inspecting, diagnosing, and repairing additional mechanical parts and systems of three-wheelers, including clutch systems, brake linkages, propeller shafts, suspension assemblies, and differential units following OEM Standard Operating Procedures (SOPs).

1. [ASC/N1324: Perform Three Wheeler Additional Mechanical Parts Repair](#)

Qualification Pack (QP) Parameters

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Sector	Automotive
Sub-Sector	Automotive Vehicle Service
Occupation	Technical Service & Repair
Country	India
NSQF Level	4
Credits	20
Aligned to NCO/ISCO/ISIC Code	NCO-2015/7231.0501
Minimum Educational Qualification & Experience	10th Class (+ 1 year ITI) OR 10th Class (pass) with 2 Years of experience of relevant experience OR 11th Class OR Certificate-NSQF (Two Wheeler Service Assistant Level 3) with 2 Years of experience of relevant experience
Minimum Level of Education for Training in School	10th Class
Pre-Requisite License or Training	Driving License and Basic Computer Skills
Minimum Job Entry Age	18 Years
Last Reviewed On	NA
Next Review Date	17/10/2028
NSQC Approval Date	17/10/2025
Version	6.0
Reference code on NQR	QG-04-AU-04654-2025-V1-ASDC
NQR Version	1

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ASC/N9801: Organize work and resources (Service)

Description

This NOS unit is about implementing safety, planning work, adopting sustainable practices for optimising use of resources

Scope

The scope covers the following :

- Maintain safe and secure working environment
- Perform work as per quality standards
- Health and hygiene
- Material/energy conservation practices
- Effective waste management practices

Elements and Performance Criteria

Maintain safe and secure working environment

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

PC1. organise work as per organisation's current health, safety and security policies and procedures

PC2. report any identified breaches in health, safety, and security policies and procedures to the designated person

PC3. identify the risks and hazards associated with work activities, their causes and prevention

Perform work as per quality standards

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

PC4. ensure work area is clean and tidy

PC5. ensure that work is accomplished as per the requirements within the specified timeline

PC6. ensure team goals are given preference over individual goals

Health and hygiene

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

PC7. sanitize workstation and equipment regularly

PC8. clean hands with soap, alcohol-based sanitizer regularly

PC9. avoid contact with ill people and self-isolate in a similar situation

PC10. wear and dispose PPEs regularly and appropriately

PC11. report advanced hygiene and sanitation issues to appropriate authority

PC12. follow stress and anxiety management techniques

Material/energy conservation practices

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

PC13. identify ways to optimise usage of material in various tasks/activities/processes

PC14. use resources, including water, in a responsible manner

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- PC15.** check for spills/leakages in various tasks/activities/processes
- PC16.** plug spills/leakages and escalate to appropriate authority if unable to rectify
- PC17.** carry out routine cleaning of tools, machines and equipment
- PC18.** check if the equipment/machine is functioning normally before commencing work and rectify wherever required
- PC19.** report malfunctioning (fumes/sparks/emission/vibration/noise) and lapse in maintenance of equipment
- PC20.** ensure electrical equipment and appliances are properly connected and turned off when not in use

Effective waste management practices

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

- PC21.** identify recyclable and non-recyclable, and hazardous waste generated
- PC22.** segregate waste into different categories
- PC23.** dispose non-recyclable waste appropriately
- PC24.** deposit recyclable and reusable material at identified location
- PC25.** follow processes specified for disposal of hazardous waste

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** organisation procedures for health, safety and security, and individual role and responsibilities in this context
- KU2.** the organisations emergency procedures for different emergency situations and the importance of following the same
- KU3.** evacuation procedures for workers and visitors
- KU4.** how and when to report hazards as well as the limits of responsibility for dealing with hazards
- KU5.** potential hazards, risks and threats based on the nature of work
- KU6.** the implications of own work on the schedule and work of others
- KU7.** efficient utilisation of material and water
- KU8.** basics of electricity and prevalent energy efficient devices
- KU9.** ways to recognise common electrical problems
- KU10.** common practices of conserving electricity
- KU11.** common sources of pollution and ways to minimize it
- KU12.** categorisation of waste into dry, wet, recyclable, non-recyclable and items of single-use plastics
- KU13.** usage of different colours of dustbins
- KU14.** waste management and methods of waste disposal
- KU15.** significance of greening
- KU16.** organisation's policies to maintain personal health and hygiene at workplace

Generic Skills (GS)

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User/individual on the job needs to know how to:

- GS1.** read instructions/guidelines/standard operating procedures
- GS2.** complete statutory documents relevant to safety and hygiene
- GS3.** modify work practices to improve them
- GS4.** ask for clarifications from superior about the job requirement
- GS5.** work with supervisors/team members to carry out work related tasks
- GS6.** complete tasks efficiently and accurately within stipulated time
- GS7.** inform/report to concerned person in case of any problem
- GS8.** make timely decisions for efficient utilization of resources
- GS9.** write in at least one language and complete written work with attention to detail
- GS10.** record data on waste disposal at workplace
- GS11.** be punctual, utilize time and manage workload efficiently
- GS12.** evaluate strategies to maintain, enhance or reduce the intensity of heightened emotional response

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Maintain safe and secure working environment</i>	8	4	-	3
PC1. organise work as per organisation's current health, safety and security policies and procedures	-	2	-	1
PC2. report any identified breaches in health, safety, and security policies and procedures to the designated person	3	1	-	-
PC3. identify the risks and hazards associated with work activities, their causes and prevention	5	1	-	2
<i>Perform work as per quality standards</i>	12	8	-	6
PC4. ensure work area is clean and tidy	4	2	-	-
PC5. ensure that work is accomplished as per the requirements within the specified timeline	6	4	-	2
PC6. ensure team goals are given preference over individual goals	2	2	-	4
<i>Health and hygiene</i>	12	8	-	5
PC7. sanitize workstation and equipment regularly	2	2	-	2
PC8. clean hands with soap, alcohol-based sanitizer regularly	2	1	-	-
PC9. avoid contact with ill people and self-isolate in a similar situation	2	1	-	-
PC10. wear and dispose PPEs regularly and appropriately	2	2	-	1
PC11. report advanced hygiene and sanitation issues to appropriate authority	2	2	-	2
PC12. follow stress and anxiety management techniques	2	-	-	-
<i>Material/energy conservation practices</i>	10	4	-	3
PC13. identify ways to optimise usage of material in various tasks/activities/processes	2	-	-	1

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC14. use resources, including water, in a responsible manner	2	-	-	-
PC15. check for spills/leakages in various tasks/activities/processes	-	1	-	-
PC16. plug spills/leakages and escalate to appropriate authority if unable to rectify	-	1	-	1
PC17. carry out routine cleaning of tools, machines and equipment	2	-	-	-
PC18. check if the equipment/machine is functioning normally before commencing work and rectify wherever required	-	1	-	1
PC19. report malfunctioning (fumes/sparks/emission/vibration/noise) and lapse in maintenance of equipment	2	1	-	-
PC20. ensure electrical equipment and appliances are properly connected and turned off when not in use	2	-	-	-
<i>Effective waste management practices</i>	8	6	-	3
PC21. identify recyclable and non-recyclable, and hazardous waste generated	2	-	-	1
PC22. segregate waste into different categories	-	2	-	-
PC23. dispose non-recyclable waste appropriately	2	2	-	1
PC24. deposit recyclable and reusable material at identified location	2	1	-	-
PC25. follow processes specified for disposal of hazardous waste	2	1	-	1
NOS Total	50	30	-	20

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National Occupational Standards (NOS) Parameters

NOS Code	ASC/N9801
NOS Name	Organize work and resources (Service)
Sector	Automotive
Sub-Sector	Generic
Occupation	Generic
NSQF Level	3
Credits	2
Version	2.0
Last Reviewed Date	17/10/2025
Next Review Date	17/10/2028
NSQC Clearance Date	17/10/2025

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DGT/VSQ/N0102: Employability Skills (60 Hours)

Description

This unit is about employability skills, Constitutional values, becoming a professional in the 21st Century, digital, financial, and legal literacy, diversity and Inclusion, English and communication skills, customer service, entrepreneurship, and apprenticeship, getting ready for jobs and career development.

Scope

The scope covers the following :

- Introduction to Employability Skills
- Constitutional values - Citizenship
- Becoming a Professional in the 21st Century
- Basic English Skills
- Career Development & Goal Setting
- Communication Skills
- Diversity & Inclusion
- Financial and Legal Literacy
- Essential Digital Skills
- Entrepreneurship
- Customer Service
- Getting ready for Apprenticeship & Jobs

Elements and Performance Criteria

Introduction to Employability Skills

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

PC1. identify employability skills required for jobs in various industries

PC2. identify and explore learning and employability portals

Constitutional values - Citizenship

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

PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.

PC4. follow environmentally sustainable practices

Becoming a Professional in the 21st Century

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

PC5. recognize the significance of 21st Century Skills for employment

PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life

Basic English Skills

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

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- PC7.** use basic English for everyday conversation in different contexts, in person and over the telephone
- PC8.** read and understand routine information, notes, instructions, mails, letters etc. written in English
- PC9.** write short messages, notes, letters, e-mails etc. in English

Career Development & Goal Setting

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

- PC10.** understand the difference between job and career
- PC11.** prepare a career development plan with short- and long-term goals, based on aptitude

Communication Skills

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

- PC12.** follow verbal and non-verbal communication etiquette and active listening techniques in various settings
- PC13.** work collaboratively with others in a team

Diversity & Inclusion

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

- PC14.** communicate and behave appropriately with all genders and PwD
- PC15.** escalate any issues related to sexual harassment at workplace according to POSH Act

Financial and Legal Literacy

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

- PC16.** select financial institutions, products and services as per requirement
- PC17.** carry out offline and online financial transactions, safely and securely
- PC18.** identify common components of salary and compute income, expenses, taxes, investments etc
- PC19.** identify relevant rights and laws and use legal aids to fight against legal exploitation

Essential Digital Skills

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

- PC20.** operate digital devices and carry out basic internet operations securely and safely
- PC21.** use e-mail and social media platforms and virtual collaboration tools to work effectively
- PC22.** use basic features of word processor, spreadsheets, and presentations

Entrepreneurship

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

- PC23.** identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research
- PC24.** develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion
- PC25.** identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity

Customer Service

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

- PC26.** identify different types of customers
- PC27.** identify and respond to customer requests and needs in a professional manner.

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PC28. follow appropriate hygiene and grooming standards

Getting ready for apprenticeship & Jobs

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

PC29. create a professional Curriculum vitae (Résumé)

PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively

PC31. apply to identified job openings using offline /online methods as per requirement

PC32. answer questions politely, with clarity and confidence, during recruitment and selection

PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

KU1. need for employability skills and different learning and employability related portals

KU2. various constitutional and personal values

KU3. different environmentally sustainable practices and their importance

KU4. Twenty first (21st) century skills and their importance

KU5. how to use English language for effective verbal (face to face and telephonic) and written communication in formal and informal set up

KU6. importance of career development and setting long- and short-term goals

KU7. about effective communication

KU8. POSH Act

KU9. Gender sensitivity and inclusivity

KU10. different types of financial institutes, products, and services

KU11. how to compute income and expenditure

KU12. importance of maintaining safety and security in offline and online financial transactions

KU13. different legal rights and laws

KU14. different types of digital devices and the procedure to operate them safely and securely

KU15. how to create and operate an e- mail account and use applications such as word processors, spreadsheets etc.

KU16. how to identify business opportunities

KU17. types and needs of customers

KU18. how to apply for a job and prepare for an interview

KU19. apprenticeship scheme and the process of registering on apprenticeship portal

Generic Skills (GS)

User/individual on the job needs to know how to:

GS1. read and write different types of documents/instructions/correspondence

GS2. communicate effectively using appropriate language in formal and informal settings

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- GS3.** behave politely and appropriately with all
- GS4.** how to work in a virtual mode
- GS5.** perform calculations efficiently
- GS6.** solve problems effectively
- GS7.** pay attention to details
- GS8.** manage time efficiently
- GS9.** maintain hygiene and sanitization to avoid infection

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Introduction to Employability Skills</i>	1	1	-	-
PC1. identify employability skills required for jobs in various industries	-	-	-	-
PC2. identify and explore learning and employability portals	-	-	-	-
<i>Constitutional values - Citizenship</i>	1	1	-	-
PC3. recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-	-	-
PC4. follow environmentally sustainable practices	-	-	-	-
<i>Becoming a Professional in the 21st Century</i>	2	4	-	-
PC5. recognize the significance of 21st Century Skills for employment	-	-	-	-
PC6. practice the 21st Century Skills such as Self-Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-	-	-
<i>Basic English Skills</i>	2	3	-	-
PC7. use basic English for everyday conversation in different contexts, in person and over the telephone	-	-	-	-
PC8. read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-	-	-
PC9. write short messages, notes, letters, e-mails etc. in English	-	-	-	-
<i>Career Development & Goal Setting</i>	1	2	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. understand the difference between job and career	-	-	-	-
PC11. prepare a career development plan with short- and long-term goals, based on aptitude	-	-	-	-
<i>Communication Skills</i>	2	2	-	-
PC12. follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-	-	-
PC13. work collaboratively with others in a team	-	-	-	-
<i>Diversity & Inclusion</i>	1	2	-	-
PC14. communicate and behave appropriately with all genders and PwD	-	-	-	-
PC15. escalate any issues related to sexual harassment at workplace according to POSH Act	-	-	-	-
<i>Financial and Legal Literacy</i>	2	3	-	-
PC16. select financial institutions, products and services as per requirement	-	-	-	-
PC17. carry out offline and online financial transactions, safely and securely	-	-	-	-
PC18. identify common components of salary and compute income, expenses, taxes, investments etc	-	-	-	-
PC19. identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-	-	-
<i>Essential Digital Skills</i>	3	4	-	-
PC20. operate digital devices and carry out basic internet operations securely and safely	-	-	-	-
PC21. use e-mail and social media platforms and virtual collaboration tools to work effectively	-	-	-	-
PC22. use basic features of word processor, spreadsheets, and presentations	-	-	-	-

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Entrepreneurship</i>	2	3	-	-
PC23. identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-	-	-
PC24. develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-	-	-
PC25. identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-	-	-
<i>Customer Service</i>	1	2	-	-
PC26. identify different types of customers	-	-	-	-
PC27. identify and respond to customer requests and needs in a professional manner.	-	-	-	-
PC28. follow appropriate hygiene and grooming standards	-	-	-	-
<i>Getting ready for apprenticeship & Jobs</i>	2	3	-	-
PC29. create a professional Curriculum vitae (Résumé)	-	-	-	-
PC30. search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-	-	-
PC31. apply to identified job openings using offline /online methods as per requirement	-	-	-	-
PC32. answer questions politely, with clarity and confidence, during recruitment and selection	-	-	-	-
PC33. identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-	-	-
NOS Total	20	30	-	-

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National Occupational Standards (NOS) Parameters

NOS Code	DGT/VSQ/N0102
NOS Name	Employability Skills (60 Hours)
Sector	Cross Sectoral
Sub-Sector	Professional Skills
Occupation	Employability
NSQF Level	4
Credits	2
Version	1.0
Last Reviewed Date	07/10/2025
Next Review Date	07/10/2028
NSQC Clearance Date	07/10/2025

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ASC/N1420: Perform routine servicing and minor repairs

Description

This NOS unit is about a two wheeler service technician carrying out routine service, repair and maintenance activities of various aggregates, including electrical and mechanical

Scope

The scope covers the following :

- Prepare for routine service, maintenance and minor repairs
- Perform routine service, maintenance and minor repairs
- Perform post service/repair activities

Elements and Performance Criteria

Prepare for routine service, maintenance and minor repairs

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

PC1. review the job card and understand the work to be carried out

PC2. identify the auto component manufacturer specifications related to various components/aggregates in the vehicle

PC3. inspect the components requiring replacement due to continuous wear and tear such as chain and chain sprocket, clutch cable, brake linings and pads etc.

PC4. inspect the machining/repair done by outside source/local machining garages

PC5. test ride the two wheeler vehicle to assess the requirement of calibration, other adjustments and repairs if any, in the electrical/mechanical aggregates

PC6. use checklist for confirming routine servicing tasks and coordinate with superior for non-routine service or repair, if any

PC7. collect workshop tools/equipment, spare parts and appropriate grade of lubricants, oils and grease required for the job

PC8. report the malfunctions if any, in the tools/equipment to the person concerned for rectification

Perform routine service, maintenance and minor repairs

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

PC9. take precautions to avoid damage to the vehicle and its components while working on various aggregates

PC10. check lubricants/fluids level and refill/top-up if required,

PC11. use relevant computer based applications to find faults in the electronic system of engine, brake and other aggregates

PC12. check for any repair requirements observed in the components/aggregates and systems (such as engine, gearbox etc.) while repairing/overhauling of braking or suspension systems and report the same to supervisor/service advisor for further inspection by other specialists

PC13. remove, replace, and repair relevant parts in various aggregate of the vehicle as per OEM Standard Operating Procedure

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- PC14.** clean and condition dismantled parts/components, prior to reassembly
- PC15.** ensure completeness of tasks assigned before releasing the vehicle for the next procedure
- PC16.** maintain the documentation related to inspection, servicing, maintenance and repair of the vehicle

Perform post service/repair activities

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

- PC17.** check the performance of vehicle/aggregate post repair and report to supervisor/service advisor if further inspection is required by another specialist
- PC18.** dispose off materials such as waste oil, scrap of failed parts/aggregates, as per organization's policies
- PC19.** return leftover consumable/parts, tools/equipment, and report if any malfunctions are observed to the person concerned
- PC20.** perform scheduled checks, calibration and timely repairs for workshop tools, equipment and workstations

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** about the Automotive Industry in India (particularly for two wheelers), workshop structure and role and responsibilities of different people in the workshop
- KU2.** SOPs regarding receiving vehicles, opening job card, allocation of work, invoicing, vehicle delivery, handling complaints etc.
- KU3.** different components/aggregates as well as auto component manufacturer specifications
- KU4.** various sources of information available for assessing service and repair requirements of the vehicle including diagnostic displays, visual inspections, test drives, vehicle/equipment manufacturer specifications, standard operating procedures etc.
- KU5.** standard schedules and checklists recommended by the OEM/auto component manufacturer for servicing of vehicles
- KU6.** Standard Operating Procedures recommended by OEM for using tools and equipment related to aggregates/components repair including use of pressure indicators: oil pressure gauges, tyre pressure gauges etc
- KU7.** safety precautions for equipment and components prescribed by the OEM such as preventing/dealing with oil spillage and inflammable materials
- KU8.** Standard Operating Procedures for servicing and minor repairing of vehicles as prescribed by the OEM
- KU9.** basic technology used in and functioning of various systems and components of the vehicle including engine and sub-assemblies such as carburetor and ignition coil
- KU10.** materials used for carrying out the job such as seals, sealants, fittings, gaskets, joints, fasteners etc
- KU11.** type and quality of consumables and components (e.g. filters, brake lining, brake pads etc.) specified by the OEM for use such as grade of lubricants
- KU12.** type of errors or defects in the tools/equipment
- KU13.** about computer based tools/equipment

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- KU14.** faults and failures in engine, components/aggregates (including electrical and mechanical aggregates) and other units
- KU15.** importance of proper disposal of failed components and changed oil, lubricant, grease etc. in accordance with safety, health and environmental policies and regulations
- KU16.** symptoms that necessitate replacement of parts/aggregates.
- KU17.** safety, health and environmental policies and regulations for the work place as well as for automotive trade in general
- KU18.** documentation required on the job (including job cards, work sheets, etc.) regarding the basic details of repair, maintenance and service performed

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** read and interpret workplace related documentation
- GS2.** read various sources of information available for assessing service and repair requirements
- GS3.** analyse and apply the information gathered from observation, experience, reasoning or communication to act efficiently
- GS4.** plan and organise work according to the principles of 5S
- GS5.** write any work related information in English/regional language
- GS6.** communicate effectively using terms, names, grades and other nomenclature pertaining to the automotive trade, tools, specific workshop equipment etc. at the work place
- GS7.** identify potential workplace problem and take suitable action

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Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for routine service, maintenance and minor repairs</i>	12	20	-	7
PC1. review the job card and understand the work to be carried out	2	2	-	-
PC2. identify the auto component manufacturer specifications related to various components/aggregates in the vehicle	2	3	-	1
PC3. inspect the components requiring replacement due to continuous wear and tear such as chain and chain sprocket, clutch cable, brake linings and pads etc.	-	5	-	1
PC4. inspect the machining/repair done by outside source/local machining garages	-	2	-	1
PC5. test ride the two wheeler vehicle to assess the requirement of calibration, other adjustments and repairs if any, in the electrical/mechanical aggregates	2	2	-	-
PC6. use checklist for confirming routine servicing tasks and coordinate with superior for non-routine service or repair, if any	2	2	-	2
PC7. collect workshop tools/equipment, spare parts and appropriate grade of lubricants, oils and grease required for the job	2	2	-	2
PC8. report the malfunctions if any, in the tools/equipment to the person concerned for rectification	2	2	-	-
<i>Perform routine service, maintenance and minor repairs</i>	10	21	-	9
PC9. take precautions to avoid damage to the vehicle and its components while working on various aggregates	2	2	-	-
PC10. check lubricants/fluids level and refill/top-up if required,	2	2	-	1

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. use relevant computer based applications to find faults in the electronic system of engine, brake and other aggregates	2	2	-	1
PC12. check for any repair requirements observed in the components/aggregates and systems (such as engine, gearbox etc.) while repairing/overhauling of braking or suspension systems and report the same to supervisor/service advisor for further inspection by other specialists	-	3	-	2
PC13. remove, replace, and repair relevant parts in various aggregate of the vehicle as per OEM Standard Operating Procedure	2	5	-	3
PC14. clean and condition dismantled parts/components, prior to reassembly	-	3	-	1
PC15. ensure completeness of tasks assigned before releasing the vehicle for the next procedure	-	2	-	-
PC16. maintain the documentation related to inspection, servicing, maintenance and repair of the vehicle	2	2	-	1
<i>Perform post service/repair activities</i>	8	9	-	4
PC17. check the performance of vehicle/aggregate post repair and report to supervisor/service advisor if further inspection is required by another specialist	2	2	-	-
PC18. dispose off materials such as waste oil, scrap of failed parts/aggregates, as per organization's policies	2	3	-	2
PC19. return leftover consumable/parts, tools/equipment, and report if any malfunctions are observed to the person concerned	2	2	-	-
PC20. perform scheduled checks, calibration and timely repairs for workshop tools, equipment and workstations	2	2	-	2
NOS Total	30	50	-	20

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	ASC/N1420
NOS Name	Perform routine servicing and minor repairs
Sector	Automotive
Sub-Sector	Automotive Vehicle Service
Occupation	Automotive Service & Repair
NSQF Level	4
Credits	8
Version	4.0
Last Reviewed Date	17/10/2025
Next Review Date	17/10/2028
NSQC Clearance Date	17/10/2025

Qualification Pack

ASC/N1300: Perform Two wheeler Electrical and Electronics minor Repair

Description

This NOS is about diagnosing and performing minor electrical and electronics repairs on two-wheelers, including basic battery maintenance, light system repair, fuse and wiring checks, and basic sensor inspections following OEM Standard Operating Procedures (SOPs)

Scope

The scope covers the following :

- Diagnose common two-wheeler electrical faults using basic tools and OEM procedures.
- Repair or replace minor electrical components such as bulbs, switches, fuses, and wiring connectors.
- Conduct basic battery health check and maintenance tasks.
- Perform minor electronics sensor inspections and reset operations.

Elements and Performance Criteria

Prepare for Electrical and Electronics Service

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

PC1. Review job card and customer complaints related to electrical or electronics issues

PC2. Gather necessary hand tools, testing meters, wiring diagrams, and OEM manuals before starting work.

PC3. Inspect the condition of wiring harnesses, connectors, and electrical system visually for faults or damage

Conduct Minor Electrical Fault Diagnosis and Repairs

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

PC4. Test battery voltage, specific gravity (for lead-acid) or health indication (for VRLA/Li-ion) as per OEM standards

PC5. Replace defective headlamps, tail lamps, indicator bulbs, number plate bulbs, and brake lamps as per wiring diagram

PC6. Inspect and replace blown fuses with OEM recommended rated fuses ensuring no bypassing

PC7. Check operation of switches (starter, brake light, indicator, horn) and repair/replace as needed.

PC8. Repair minor open circuits, loose connectors, or corroded terminals as per standard practices

Inspect and Handle Basic Electronics Components

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

PC9. Perform basic On-Board Diagnostics (OBD) code reading using handheld scanner for engine check lights, if applicable.

PC10. Inspect basic sensors (speed sensor, throttle position sensor, ABS sensor) for connectivity and mounting conditions

PC11. Perform simple resets (throttle reset, immobilizer reset) where instructed in OEM manual

Post-Service Quality Assurance and Documentation

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

Qualification Pack

- PC12.** Verify corrected operations by switching on lights, indicators, horn, start switch, and dashboard displays
- PC13.** Clear any error codes post repair using appropriate tools or report unresolved issues to supervisor.
- PC14.** Complete repair records, battery service log, and parts replacement list properly on job card.
- PC15.** Return the vehicle in clean condition ensuring all electric functions work normally after service.

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Basic principles of two wheeler electrical systems battery starter ignition lighting circuits.
- KU2.** Types of batteries used in two-wheelers and their maintenance practices.
- KU3.** Function and testing procedure for basic switches and wiring circuits.
- KU4.** Purpose and method for replacing fuses and minor wiring repairs.
- KU5.** Basics of minor electronics components: sensors, actuators, and simple resets.
- KU6.** Use of multimeter, battery tester, and basic diagnostic scanner.
- KU7.** Importance of using correct rated components and avoiding temporary fixes (e.g., fuse bypass).
- KU8.** Safe handling practices for electrical repairs including disconnecting battery terminals when necessary.
- KU9.** Common diagnostic trouble codes (DTCs) related to minor electronics faults.
- KU10.** Documentation standards for electrical fault repair and battery maintenance.

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** Read electrical wiring diagrams, manuals, and service instructions.
- GS2.** Communicate fault findings and required actions to supervisors/customers clearly.
- GS3.** Document electrical service activities, parts replaced, and DTCs observed accurately.
- GS4.** Maintain safe and clean working environment during electrical service.
- GS5.** Apply diagnostic reasoning to identify basic electrical and electronics faults.
- GS6.** Collaborate effectively with mechanical service team for joint operations.
- GS7.** Prioritize electrical repairs based on severity and customer complaint criticality
- GS8.** Follow workshop safety, PPE norms, and environmental regulations regarding battery and wiring waste.

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for Electrical and Electronics Service</i>	9	6	-	3
PC1. Review job card and customer complaints related to electrical or electronics issues	3	2	-	1
PC2. Gather necessary hand tools, testing meters, wiring diagrams, and OEM manuals before starting work.	3	2	-	1
PC3. Inspect the condition of wiring harnesses, connectors, and electrical system visually for faults or damage	3	2	-	1
<i>Conduct Minor Electrical Fault Diagnosis and Repairs</i>	16	10	-	7
PC4. Test battery voltage, specific gravity (for lead-acid) or health indication (for VRLA/Li-ion) as per OEM standards	3	2	-	1
PC5. Replace defective headlamps, tail lamps, indicator bulbs, number plate bulbs, and brake lamps as per wiring diagram	3	2	-	1
PC6. Inspect and replace blown fuses with OEM recommended rated fuses ensuring no bypassing	3	2	-	1
PC7. Check operation of switches (starter, brake light, indicator, horn) and repair/replace as needed.	4	2	-	2
PC8. Repair minor open circuits, loose connectors, or corroded terminals as per standard practices	3	2	-	2
<i>Inspect and Handle Basic Electronics Components</i>	12	6	-	5
PC9. Perform basic On-Board Diagnostics (OBD) code reading using handheld scanner for engine check lights, if applicable.	4	2	-	2
PC10. Inspect basic sensors (speed sensor, throttle position sensor, ABS sensor) for connectivity and mounting conditions	4	2	-	2

Qualification Pack

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC11. Perform simple resets (throttle reset, immobilizer reset) where instructed in OEM manual	4	2	-	1
<i>Post-Service Quality Assurance and Documentation</i>	13	8	-	5
PC12. Verify corrected operations by switching on lights, indicators, horn, start switch, and dashboard displays	3	2	-	1
PC13. Clear any error codes post repair using appropriate tools or report unresolved issues to supervisor.	4	2	-	1
PC14. Complete repair records, battery service log, and parts replacement list properly on job card.	3	2	-	1
PC15. Return the vehicle in clean condition ensuring all electric functions work normally after service.	3	2	-	2
NOS Total	50	30	-	20

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	ASC/N1300
NOS Name	Perform Two wheeler Electrical and Electronics minor Repair
Sector	Automotive
Sub-Sector	
Occupation	Automotive Service & Repair
NSQF Level	4
Credits	4
Version	1.0
Last Reviewed Date	17/10/2025
Next Review Date	17/10/2028
NSQC Clearance Date	17/10/2025

Qualification Pack

ASC/N1324: Perform Three Wheeler Additional Mechanical Parts Repair

Description

This NOS is about inspecting, diagnosing, and repairing additional mechanical parts and systems of three-wheelers, including clutch systems, brake linkages, propeller shafts, suspension assemblies, and differential units following OEM Standard Operating Procedures (SOPs)

Scope

The scope covers the following :

- Inspect, diagnose, and repair clutch and brake systems specific to three-wheelers.
- Perform maintenance and minor repairs on propeller shafts and differentials.
- Service suspension systems including leaf springs and dampers.
- Follow OEM guidelines, ensure safety, and maintain proper service documentation

Elements and Performance Criteria

Prepare for Three-Wheeler Mechanical Repairs

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

PC1. Review job card details and customer complaints related to mechanical faults in three-wheelers

PC2. Collect required tools, lifting equipment, service manuals, and personal protective equipment before commencing work

PC3. Inspect three-wheeler condition externally for signs of mechanical wear, oil leakages, and physical damages

Perform Clutch and Brake System Repairs

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

PC4. Inspect clutch pedal free play, clutch cable, and adjust or replace as per OEM recommendations

PC5. Dismantle and replace worn-out clutch plates, pressure plates, or release bearings as per SOPs.

PC6. Inspect brake linkages, rods, drums, liners, and adjust or replace defective parts to restore braking efficiency

Repair Propeller Shaft and Differential Components

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

PC7. Inspect propeller shaft universal joints for wear and play; lubricate or replace if necessary

PC8. Inspect differential housing for oil leaks, unusual noise, and backlash; report major faults to supervisor.

PC9. Replace differential oil, adjust backlash if applicable, and ensure proper tightening torque as per OEM standards

Service Suspension and Final Verification

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

Qualification Pack

- PC10.** Inspect leaf springs, shackle pins, bushes, and U-bolts for wear and looseness; replace if defective
- PC11.** Check operation of shock absorbers; replace leaking or ineffective dampers following OEM SOPs
- PC12.** Conduct final torque tightening of critical fasteners like propeller shaft bolts, suspension U-bolts
- PC13.** Perform test drive to verify clutch engagement, braking effectiveness, and suspension ride quality post-repair
- PC14.** Complete service record documentation including repairs performed, parts replaced, and customer feedback collection

Knowledge and Understanding (KU)

The individual on the job needs to know and understand:

- KU1.** Structure and functioning of three-wheeler clutch, brake, propeller shaft, suspension, and differential systems
- KU2.** OEM service schedules and maintenance guidelines for critical mechanical components.
- KU3.** Fault symptoms for clutch slippage, hard pedal feel, brake inefficiency, differential noise, suspension sagging.
- KU4.** Tools and special service equipment used for mechanical dismantling, assembly, torque tightening.
- KU5.** Procedures for safe lifting, jacking, and working underneath three-wheelers.
- KU6.** Lubricants, oils, greases required for clutch, propeller shaft, and differential servicing.
- KU7.** Safety practices for handling heavy components and high-tension springs (in suspension).
- KU8.** Environmental disposal procedures for used lubricants, brake linings, and metal scrap.
- KU9.** Customer communication etiquette when explaining repairs done or recommending further repairs.
- KU10.** Documentation practices for three-wheeler maintenance and repair activities.

Generic Skills (GS)

User/individual on the job needs to know how to:

- GS1.** Read and interpret job cards, OEM service manuals, and torque specifications.
- GS2.** Communicate effectively with supervisors, parts department, and customers regarding mechanical work.
- GS3.** Document service activities clearly including dismantling, inspections, replacements, and torque readings
- GS4.** Maintain workshop safety norms during mechanical servicing.
- GS5.** Perform basic mathematical calculations for tolerances, clearances, and torque values
- GS6.** Prioritize repair activities based on safety criticality and customer needs
- GS7.** Collaborate with multi-skilled service teams during larger repair tasks

Qualification Pack

Assessment Criteria

Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
<i>Prepare for Three-Wheeler Mechanical Repairs</i>	12	6	-	4
PC1. Review job card details and customer complaints related to mechanical faults in three-wheelers	4	2	-	1
PC2. Collect required tools, lifting equipment, service manuals, and personal protective equipment before commencing work	4	2	-	1
PC3. Inspect three-wheeler condition externally for signs of mechanical wear, oil leakages, and physical damages	4	2	-	2
<i>Perform Clutch and Brake System Repairs</i>	12	8	-	6
PC4. Inspect clutch pedal free play, clutch cable, and adjust or replace as per OEM recommendations	4	3	-	2
PC5. Dismantle and replace worn-out clutch plates, pressure plates, or release bearings as per SOPs.	4	3	-	2
PC6. Inspect brake linkages, rods, drums, liners, and adjust or replace defective parts to restore braking efficiency	4	2	-	2
<i>Repair Propeller Shaft and Differential Components</i>	11	6	-	5
PC7. Inspect propeller shaft universal joints for wear and play; lubricate or replace if necessary	4	2	-	1
PC8. Inspect differential housing for oil leaks, unusual noise, and backlash; report major faults to supervisor.	4	2	-	2
PC9. Replace differential oil, adjust backlash if applicable, and ensure proper tightening torque as per OEM standards	3	2	-	2
<i>Service Suspension and Final Verification</i>	15	10	-	5

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Assessment Criteria for Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC10. Inspect leaf springs, shackle pins, bushes, and U-bolts for wear and looseness; replace if defective	3	2	-	1
PC11. Check operation of shock absorbers; replace leaking or ineffective dampers following OEM SOPs	3	2	-	1
PC12. Conduct final torque tightening of critical fasteners like propeller shaft bolts, suspension U-bolts	3	2	-	1
PC13. Perform test drive to verify clutch engagement, braking effectiveness, and suspension ride quality post-repair	3	2	-	1
PC14. Complete service record documentation including repairs performed, parts replaced, and customer feedback collection	3	2	-	1
NOS Total	50	30	-	20

Qualification Pack

National Occupational Standards (NOS) Parameters

NOS Code	ASC/N1324
NOS Name	Perform Three Wheeler Additional Mechanical Parts Repair
Sector	Automotive
Sub-Sector	
Occupation	Automotive Service & Repair
NSQF Level	4
Credits	4
Version	1.0
Last Reviewed Date	17/10/2025
Next Review Date	17/10/2028
NSQC Clearance Date	17/10/2025

Assessment Guidelines and Assessment Weightage

Assessment Guidelines

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training centre (as per assessment criteria below).
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/ training centre based on these criteria.
5. In case of successfully passing only certain number of NOSs, the trainee is eligible to take subsequent assessment on the balance NOS's to pass the Qualification Pack.
6. In case of unsuccessful completion, the trainee may seek reassessment on the Qualification Pack

Qualification Pack

Minimum Aggregate Passing % at QP Level : 70

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

Assessment Weightage

Compulsory NOS

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
ASC/N9801.Organize work and resources (Service)	50	30	0	20	100	10
DGT/VSQ/N0102.Employability Skills (60 Hours)	20	30	0	0	50	10
ASC/N1420.Perform routine servicing and minor repairs	30	50	-	20	100	45
Total	100	110	-	40	250	65

Elective: 1 Perform Two wheeler Electrical and Electronics minor Repair

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
ASC/N1300.Perform Two wheeler Electrical and Electronics minor Repair	50	30	-	20	100	35
Total	50	30	-	20	100	35

Elective: 2 Perform Three Wheeler Additional Mechanical Parts Repair

National Occupational Standards	Theory Marks	Practical Marks	Project Marks	Viva Marks	Total Marks	Weightage
ASC/N1324.Perform Three Wheeler Additional Mechanical Parts Repair	50	30	-	20	100	35
Total	50	30	-	20	100	35

Qualification Pack

Qualification Pack

Acronyms

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
OEM	Original Equipment Manufacturer
NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
PwD	Persons with Disability
OEM	Original Equipment Manufacturer
NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
PwD	Persons with Disability
OEM	Original Equipment Manufacturer
NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
PwD	Persons with Disability
OEM	Original Equipment Manufacturer

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.
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.

Qualification Pack

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.
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application)
OJT (M)	On-the-job training (Mandatory)trainees are mandated to complete specified hours of training on site
OJT (R)	On-the-job training (Recommended) trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills

Qualification Pack

Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome
Declarative Knowledge	Declarative knowledge refers to facts, concepts and principles that need to be known and/or understood in order to accomplish a task or to solve a problem.
Key Learning Outcome	Key learning outcome is the statement of what a learner needs to know, understand and be able to do in order to achieve the terminal outcomes. A set of key learning outcomes will make up the training outcomes. Training outcome is specified in terms of knowledge, understanding (theory) and skills (practical application).
OJT (M)	On-the-job training (Mandatory) trainees are mandated to complete specified hours of training on site
OJT (R)	On-the-job training (Recommended) trainees are recommended the specified hours of training on site
Procedural Knowledge	Procedural knowledge addresses how to do something, or how to perform a task. It is the ability to work, or produce a tangible work output by applying cognitive, affective or psychomotor skills
Training Outcome	Training outcome is a statement of what a learner will know, understand and be able to do upon the completion of the training.
Terminal Outcome	Terminal outcome is a statement of what a learner will know, understand and be able to do upon the completion of a module. A set of terminal outcomes help to achieve the training outcome