

Automotive Skills Development Council



QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR AUTOMOTIVE INDUSTRY

What are Occupational Standards (OS)?

- OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and

Contact Us:

ASDC, Core 4-B, 5th Floor, India Habitat Centre, Lodhi Road, New Delhi

skc@asdc.org.in



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Introduction

Qualifications Pack-Auto Service Technician (Two and **Three Wheelers**)

SECTOR: AUTOMOTIVE

SUB-SECTOR: AUTOMOTIVE VEHICLE SERVICE

OCCUPATION: TECHNICAL SERVICE & REPAIR

JOB ROLE: AUTO SERVICE TECHNICIAN (TWO AND THREE WHEELERS)

REFERENCE ID: ASC/Q 1411

ALIGNED TO: NCO-2004/7231.50

Auto Service Technician (two and three wheelers) is also known as Mechanic, Technician, 2 Wheeler Technician, Repair & Maintenance Technician.

Brief Job Description: An Auto Service Technician(two and three wheelers)is responsible for the repairing and routine servicing & maintenance(including electrical and mechanical aggregates) of two/three wheeler vehicles.

Personal Attributes: An individual on this job must have good communication and interpersonal skills in addition to being a team player, as the job requires coordination with other technicians as well. The individual must have a technical bend of mind to understand the technical aspects of a two/ three wheeler, which may be different from a four-wheeler. The individual must know how to drive a two/ three wheeler to practically test drive and identify any additional repair or service requirements in the electrical and mechanical aggregates.



Qualifications Pack For Auto Service Technician(two and three Wheelers)



Qualifications Pack Code	ASC/ Q 1411		
Job Role	Auto Service Technician(two and three wheelers)		
Credits(NSQF)	TBD	Version number	1.1
Industry	Automotive	Drafted on	10/06/13
Sub-sector	Automotive Vehicle Service	Last reviewed on	10/06/13
Occupation	Technical Service & Repair	Next review date	10/06/15

Job Role	Auto Service Technician(two and three wheelers)	
Role Description	Carry out repair and routine servicing and maintenance (including electrical and mechanical aggregates) of vehicles (two and three wheelers)	
NSQF level	4	
Minimum Educational Qualifications	Class X	
Maximum Educational Qualifications	ITI or Diploma in Mechanical/ Electrical / Automobile Engineering	
Training (Suggested but not mandatory)	On the job training: Desirable for ASDC Auto Service Technician (two and three wheelers) Certificate or Diploma in Automotive Repair Compulsory for all other qualifications	
Experience	 1-2 years if ASDC Auto Service Technician Level 4 Certificate or Diploma in Automotive Repair 3-5 years for other qualifications 	
	Compulsory:	
	ASC/ N 1420: Carry out routine servicing and minor repairs of aggregates of two and three wheelers	
	ASC/ N 0001: Plan and organise work to meet expected	
Occupational Standards (OS)	outcomes ACC (1) 2022 What I offer the latest a second	
Occupational Standards (OS)	ASC/ N 0002: Work effectively in a team	
	ASC/ N 0003: Maintain a healthy, safe and secure working environment	
	Optional: N.A.	
Performance Criteria	eria As described in the relevant NOS units	



Qualifications Pack For Auto Service Technician(two and three Wheelers)



Keywords /Terms	Description
Core Skills/Generic	Core Skills or Generic Skills are a group of skills that are key to learning
Skills	and working in today's world. These skills are typically needed in any
	work environment. In the context of the NOS, these include
	communication related skills that are applicable to most job roles.
Dealership	A business established or operated under an authorisation to sell or
	distribute an automotive company's goods and services
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 NOS they are looking for.
Function	Function is an activity necessary for achieving the key purpose of the
	sector, occupation, or area of work, which can be carried out by a person
	or a group of persons. Functions are identified through functional
	analysis and form the basis of NOS.
Job role	Job role defines a unique set of functions that together form a unique
	employment opportunity in an organization.
Knowledge and	Knowledge and Understanding are statements which together specify the
Understanding	technical, generic, professional and organizational specific knowledge
	that an individual needs in order to perform to the required standard.
National Occupational	NOS are Occupational Standards which apply uniquely in the Indian
Standards (NOS)	context
Occupation	Occupation is a set of job roles, which perform similar/related set of
	functions in an industry.
Organisational Context	Organisational Context includes the way the organization is structured
	and how it operates, including the extent of operative knowledge
	managers have of their relevant areas of responsibility.
Performance Criteria	Performance Criteria are statements that together specify the standard
	of performance required when carrying out a task.
Qualifications Pack(QP)	Qualifications Pack comprises the set of NOS, together with the
	educational, training and other criteria required to perform a job role. A
	Qualifications Pack is assigned a unique qualification pack code.
Qualifications Pack	Qualifications Pack Code is a unique reference code that identifies a
Code	qualifications pack.
Scope	Scope is the 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 the quality of performance required.
Sector	Sector is a conglomeration of different business operations having similar
	businesses and interests. It may also be defined as a distinct subset of the
	economy whose components share similar characteristics and interests.



Qualifications Pack For Auto Service Technician(two and three Wheelers)



Sub-Sector	Sub-sector is derived from a further breakdown based on the
	characteristics and interests of its components.
Sub-functions	Sub-functions are sub-activities essential to fulfil the achieving the
	objectives of the function.
Technical Knowledge	Technical Knowledge is the specific knowledge needed to accomplish
	specific designated responsibilities.
Unit Code	Unit Code is a unique identifier for a NOS unit, which can be denoted
	with an 'N'
Unit Title	Unit Title gives a clear overall statement about what the incumbent
	should be able to do.
Vehicle	Mode of personal transport including 2-wheelers, 3-wheelers and 4-
	wheelers (including passenger vehicles and commercial vehicles). This
M	includes gasoline, petrol, CNG, electrical and hybrid vehicles
Vertical	Vertical may exist within a sub-sector representing different domain
	areas or the client industries served by the industry.
Keywords /Terms	Description
NOS	National Occupational Standard(s)
NVEQF	National Vocational Education Qualifications Framework
NVQF	National Vocational Qualifications Framework
NSQF	National Skills Qualifications Framework
OEM	Original Equipment Manufacturer
OS	Occupational Standard(s)
QP	Qualifications Pack







National Occupational Standards



Overview

This Occupational Standard describes the knowledge, understanding and skills required of an Automotive Service Technician to carry out routine service minor and repairs (including electrical and mechanical aggregates) of a two and three wheeler vehicle. This also includes CNG, electrical and hybrid vehicles.







Unit Code	ASC/ N 1420
Unit Title (Task)	Carry out routine servicing and minor repairs of aggregates of two and three wheelers
Description	This NOS unit is about an Auto Service Technician carrying out service, repairs and maintenance activities of various aggregates(including electrical and mechanical aggregates) of two and three wheelers.
Scope	 This unit/task covers the following: carry out routine servicing of two/ three wheeler including various aggregates (scheduled, free and paid maintenance) carry out maintenance activities of the two/ three wheeler vehicle (including oil, lubricant, coolant change and greasing) carry out minor service and repair of two/ three wheeler vehicle (including mechanical and electrical aggregates)
Performance Criteria (F	PC) w.r.t. the Scope
Element	Performance Criteria
Carry out routine service & minor repairs of aggregates of two & three wheelers	PC1. understand the auto component manufacturer specifications related to the various components/ aggregates in the two/ three wheeler vehicle PC2. follow standard operating procedures for using workshop tools and equipment for service and minor aggregate repairs in the two/ three wheeler vehicle PC3. conduct test drives to assess need for repairs, calibration or any other adjustments in the electrical/ mechanical aggregates in the two/ three wheeler vehicle PC4. review the job card and understand work to be carried out PC5. ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior PC6. calibrate, align and adjust settings, alignment, pressures, tension, speeds and levels relevant to: • engine and aggregates • transmission system • chassis • electrical and electronic components • Scooter (two stroke engine) • Motor cycle (two stroke engine) • Motor cycle (four stroke engine) • Motor cycle (four stroke engine) • Disc & drum brakes system • other components (including to valves, ignition, fuel and emissions, transmission, lights, tyres, steering and body fittings)







appropriate grade of lubricants, coolant, oils and grease required have been obtained PC8. ensure all dismantled components (including mechanical and electrical aggregates) are cleaned and conditioned prior to reassembly PC9. identify and change components requiring change due to continuous wear and tear including: • oil and air filters • belts • wiper blades • brake linings and pads • drive PC10. ensure disposal of materials (including waste oil, scrap of failed parts/aggregates) in accordance with the organisation's policies PC11. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on other aggregates PC12. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure PC13. ensure all workshop tools, equipment and workstations are adequately maintained by carrying out scheduled checks, calibration and timely repairs where necessary PC14. ensure any malfunctions observed in tools and equipment are reported to the concerned persons PC15. ensure any other repair requirements observed in the other components/aggregates systems (like engine, gear box etc.) while repairing/ overhauling of braking systems are reported to supervisor/ service advisor for further inspection by other specialists PC16. able to measure/ inspect the machining or any other repair done from an outside source/ local machining garages PC17. utilise any computer-based applications relevant to service and repairs PC18. ensure that trainings organized by the OEM from time-to-time are attended and knowledge levels are upgraded (esp. in case of newly launched products,
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Element	Knowledge and Understanding	
A. Organisational Context	The user/individual on the job needs to know and understand:	
(Knowledge of the Company/	KA1. standard operating procedures for servicing and minor repair of vehicles as prescribed by the OEM/ dealership	
Organisation and its processes)	KA2. standard schedules and checklists recommended by the OEM/ auto component manufacturer for servicing of two and three wheeler vehicles	
	KA3. identification codes, nomenclature and grades of lubricants, components and	







	aggregates
	KA4. standard operating procedures recommended by the dealership/auto
	components suppliers/ OEM for using tools and equipment to be followed
	related to aggregates/ components (including electrical and mechanical
	aggregates) as per the manufacturer instructions
	KA5. standard operating procedures for rectification of errors in information (e.g.
	rectification of job card, reissue of correct tools and equipment etc.)
	KA6. safety requirements for equipment and components prescribed by the OEM
	(e.g. preventing/ dealing with oil spillage and inflammable materials)
	KA7. documentation requirements for each procedure carried out as part of roles
	and responsibilities as specified by OEM/ auto component manufacturer
	KA8. organisational and professional code of ethics and standards of practice
	KA9. safety, health and environmental policies and regulations for the workplace as
	well as for automotive trade in general (e.g. safe working practices inside pits/
	under vehicles)
	under vernices)
B. Technical	The user/individual on the job needs to know and understand:
Knowledge	
	KB1. the basic technology used in and functioning of various components and
	aggregates of the vehicle including:
	 engines and fuel system (diesel, petrol, electrical, gas etc.)
	• radiator
	emission and exhaust system
	clutch assembly
	 transmission systems (manual, automatic etc.)
	hydraulic and pneumatic system
	disc & drum brakes system
	drive-train assembly
	steering system
	suspension system
	tyres and wheel alignment
	cooling system
	 electrical, ignition, electronic and air-conditioning system etc.
	KB2. the tools used to assess deviations from specifications during routine servicing,
	maintenance and repair including use of:
	 pressure indicators: fuel pressure testers, manifold gauge sets, oil pressure
	gauges, tire pressure gauges etc.
	 pullers: ball joint separators, bearing pullers, gear puller tools, slide
	hammers etc.
	 specialty wrenches: alignment wrenches, chain wrenches, locking wrenches,
	lug wrenches etc.







- trim or moulding tools: carbon scrapers, gasket scrapers, scrapers, spoons etc.
- measuring equipment: vernier calipers, micrometre, feeler gauges, multimetre, flow metre, temp gauge, dial gauge etc.
- other tools: hand tools, power tools, lifting and jacking equipment, tensioning equipment, brake roller tester, chassis dynamometer, suspension activation, security activator etc.
- tools for other tasks such as cleaning of vehicles, tools, equipment and workshop
- KB3. how to select the right materials for the job such as seals, sealants, fittings, gaskets, joints, fasteners etc.
- KB4. how to carry out routine maintenance including:
 - checking vehicle condition against OEM specifications to identify damage, corrosion, wear and tear, fluid levels, leaks and other problems in serviceability
 - make adjustments to settings, alignment, pressures, tension, speeds and levels relevant to:
 - engine and aggregates (including fuel injection pump, ignition, intake and exhaust systems)
 - steering system
 - clutch and brake assembly
 - transmission system (including gearbox, differential, propeller shaft and axles)
 - electrical and electronic components (including alternator, lights, wire harness etc.)
 - other components (including tyres and body fittings)
- KB5. the 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
- KB6. procedures recommended by the OEM and dealership to be used during routine servicing of various aggregates/ sub-assemblies (including mechanical and electrical aggregates)
- KB7. the type and quality of components/ parts and aggregates as specified by the OEM for use as replacement in case of fault
- KB8. the grade of lubricants, oils, coolants and grease as specified by the OEM for use
- KB9. typical causes and symptoms of operational faults and failures of a vehicle







		KB10. corrective action to be taken for common engine and aggregate system faults and failures
		KB11. faults and failures that necessitate replacement of components/ aggregates (including mechanical & electrical assemblies) and other units
		KB12. how to dispose -off replaced failed components and changed oil, lubricant,
		grease etc. in accordance with safety, health and environmental policies and regulations
		KB13. precautions to be taken to ensure the following while working (including specific precautions to be taken when working with alternative fuel/ hybrid vehicles):
		 no damage to the electrical / other advanced systems (in case of hybrid/ electrical vehicles)
		 no damage to the vehicle on which work being done along with other vehicles parked besides
		 no damage to vehicle components sub-assemblies and other systems
		• no contact with hazardous materials
Ski	ills (S) w.r.t. the scop	pe
Ele	ement	Skills
A.	Core Skills/	Writing skills
	Generic Skills	The user/ individual on the job needs to know and understand how to:
		The usery marriadar of the job needs to know and anderstand now to.
		SA1. create documentation required on the job (including job cards, work sheets,
		SA1. create documentation required on the job (including job cards, work sheets, etc.) regarding the basic details of repair, maintenance and service performed
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		etc.) regarding the basic details of repair, maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors)
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		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to:
		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to: SA5. read job cards and instructions from supervisors and the service advisor
		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to: SA5. read job cards and instructions from supervisors and the service advisor SA6. read various sources of information available for assessing service and
		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to: SA5. read job cards and instructions from supervisors and the service advisor SA6. read various sources of information available for assessing service and repair requirements of the vehicle including service manual and
		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to: SA5. read job cards and instructions from supervisors and the service advisor SA6. read various sources of information available for assessing service and repair requirements of the vehicle including service manual and diagnostic and visual displays put up in the workshop
		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to: SA5. read job cards and instructions from supervisors and the service advisor SA6. read various sources of information available for assessing service and repair requirements of the vehicle including service manual and diagnostic and visual displays put up in the workshop SA7. read policies and regulations pertinent to the job, including OEM guidelines,
		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to: SA5. read job cards and instructions from supervisors and the service advisor SA6. read various sources of information available for assessing service and repair requirements of the vehicle including service manual and diagnostic and visual displays put up in the workshop
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		etc.) regarding the basic details of repair , maintenance and service performed SA2. record all diagnostic performed on the two/ three wheelers SA3. write any additional requirement of work on the vehicle reported for service, maintenance or repair found during the work done as specified in the job card (for e.g. while working on the engine and transmission system, if low level of engine oil/ greasing, then convey to the superiors) SA4. write in at least one language Reading skills The user/individual on the job needs to know and understand how to: SA5. read job cards and instructions from supervisors and the service advisor SA6. read various sources of information available for assessing service and repair requirements of the vehicle including service manual and diagnostic and visual displays put up in the workshop SA7. read policies and regulations pertinent to the job, including OEM guidelines, health and safety instructions etc.







	SA8. clearly communicate workplace information and ideas with colleagues (verbal &
	non-verbal)
	SA9. use terms, names, grades and other nomenclature pertaining to the automotive
	trade, tools, specific workshop equipment etc.
	SA10. communicate with colleagues to handle verbal enquiries, such as clarifying
	instructions and responding to requests for information
	SA11. interact with the customer through service advisor/ supervisor in case any
	additional work needs to be done on the two/ three wheeler which may not
	have been indicated in the job card and found during the work being carried
D. Duefessional Chille	out as per the job card
B. Professional Skills	Decision making
	The user/individual on the job needs to know and understand how to:
	SB1. analyse information and evaluate results to choose the best solution and solve
	problems
	SB2. decide on the repair/ replacement of any aggregate (including those in the
	electrical and mechanical sub- assemblies) post the diagnosis (with help from a
	superior in case required)
	SB3. judge when to ask for help from a superior
	Plan and Organise
	The user/individual on the job needs to know and understand how to:
	The user/individual on the job freeds to know and understand now to.
	SB4. plan work according to the required schedule and location
	SB5. organise the schedule to complete work on the vehicle timely in case other
	aggregate repairs/ maintenance work is also required to be done Customer centricity
	1
	The user/individual on the job needs to know and understand how to:
	SB6. interpret the needs of customers by evaluating job cards and talking to Service
	Advisor and superiors
	SB7. ensure that the service provided is of the highest order to ensure higher levels
	of customer satisfaction
	SB8. ensure timely communication of the additional requirements in a vehicle to the
	service advisor who in turn communicates it to the customer
	SB9. follow up with the Service Advisor on any unfavourable feedback received from
	customer
	Problem solving The control of this ideal and the circle and the large and and another discount and the circle
	The user/individual on the job needs to know and understand how to:
	SB10. recognise a workplace problem or a potential problem and take action (e.g.
	leaks or oil spills in the workshop)
	SB11. determine problems needing priority action (e.g. while working on the engine,
	crank / pistons require machining as they have been worn out, inform the
	service advisor or supervisor for urgent action)
	SB12. refer problems outside area of responsibility to appropriate person (e.g.
	unavailability of required spare parts or materials in the workshop)







SB13. gather information while working on an aggregate/ components and take
appropriate action, by consulting superiors
Analytical thinking
The user/individual on the job needs to know and understand how to:
SB14. assess repairs required based on technical faults identified as specified in the job card/ supervisor notes
SB15. refer complex problems (outside the current scope of work) to a superior in
case any additional work requirement comes up
Critical thinking
The user/individual on the job needs to know and understand how to:
SB16. analyse, evaluate and apply the information gathered from observation, experience, reasoning, or communication to act efficiently
SB17. use the diagnosis results to take an appropriate decision on repair/ replacement of an aggregates (including mechanical and electrical sub- assemblies) in consultation with the supervisor/ aggregate specialist/
service advisor







NOS Version Control

NOS Code	ASC/ N 1420		
Credits(NSQF)	TBD	Version number	1
Industry	Automotive	Drafted on	10/06/13
Industry Sub-sector	Automotive Vehicle Service	Last reviewed on	10/06/13
	72-35	Next review date	10/06/15









National Occupational Standards



Overview

This unit is about planning and organising an individual's work in order to complete it to the required standards, on time and within budget in terms of cost and material.







Description	Plan and organise work to meet expected outcomes This NOS unit is about planning and organising an individual's work in order to complete it to the required standards on time.		
Description	This NOS unit is about planning and organising an individual's work in order to complete it to the required standards on time.		
·	order to complete it to the required standards on time.		
Scope	This wait /task severe the following:		
	 This unit/task covers the following: work requirements including various activities, deliverables or work output required in the given time, maintain set quality standards appropriate use of resources (both material / equipment's and manpower) 		
Performance Criteria (PC) w.r.:	t. the Scope		
Element	Performance Criteria		
including various activities	To be competent, the user/individual on the job must be able to:		
within the given time and set quality standards	PC1. keep immediate work area clean and tidy PC2. treat confidential information as per the organisation's guidelines PC3. work in line with organisation's policies and procedures		
	PC4. work within the limits of job role PC5. obtain guidance from appropriate people, where necessary PC6. ensure work meets the agreed requirements		
Appropriate use of			
resources	PC7. establish and agree on work requirements with appropriate people		
	PC8. manage time, materials and cost effectively		
	PC9. use resources in a responsible manner		
Knowledge and Understanding	g (K) w.r.t. the scope		
Element	Knowledge and Understanding		
A. Organisational Context (Knowledge of the	The user/individual on the job needs to know and understand:		
Company/Organisation and its processes)	 KA1. the organisation's policies, procedures and priorities for area of work, role and responsibilities in carrying out that work KA2. the limits of responsibilities and when to involve others KA3. specific work requirements and who these must be agreed with KA4. the importance of having a tidy work area and how to do this KA5. how to prioritize workload according to urgency and importance and the benefits of this KA6. the organisation's policies and procedures for dealing with confidential information and the importance of complying with these KA7. the purpose of keeping others updated with the progress of work KA8. who to obtain guidance from and the typical circumstances when this may be required KA9. the purpose and value of being flexible and adapting work plans 		







	to reflect change	
B. Tarketakka kale		
B. Technical Knowledge	The user/individual on the job needs to know and understand:	
	KB1. how to complete tasks accurately by following standard	
	procedures	
	KB2. technical resources needed for work and how to obtain and use	
	these	
Skills (S) w.r.t. the scope	anese .	
Element	Skills	
	Writing Skills	
A. Core Skills/ Generic Skills		
SKIIIS	The user/individual on the job needs to know and understand how to:	
	SA1. write in at least one language	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	SA2. read instructions, guidelines/procedures	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	SA3. ask for clarification and advice from appropriate persons	
	SA4. communicate orally with colleagues	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	SB1. make a decision on a suitable course of action appropriate for	
	accurately completing the task within resources	
	Plan and Organise	
	The user/individual on the job needs to know and understand how to:	
	,	
	SB2. agree objectives and work requirements	
	SB3. plan and organise work to achieve targets and deadlines	
	Customer Centricity	
	The user/individual on the job needs to know and understand how to:	
	The user/individual off the job freeds to know and understand now to.	
	SB4. deliver consistent and reliable service to customers	
	SB5. check own work and ensure it meets customer requirements	
	Ducklam Californ	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	SB6. refer anomalies to the concerned persons	
	Analytical Thinking	
	The user/individual on the job needs to know and understand how to:	
	SB7. analyse problems and identify work -arounds taking help from	
· · · · · · · · · · · · · · · · · · ·		







	concerned persons where required		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB8. apply own judgement to identify solutions in different situations		









NOS Version Control

NOS Code	ASC/ N 0001	ASC/ N 0001	
Credits(NSQF)	TBD	Version number	1
Industry	Automotive	Drafted on	10/06/13
Industry Sub-sector	NA	Last reviewed on	10/06/13
	72-17	Next review date	10/06/15









National Occupational Standards



Overview

This unit is about working effectively with colleagues, either in own work group or in other work groups within organisation.







Unit Code	ASC/ N 0002		
Unit Title	Work effectively in a team		
(Task)			
Description	This NOS unit is about working effectively within a team, either in individual's own work group or in other work groups outside the organisation.		
Scope	This unit/task covers the following:		
	Colleagues:		
	 Interact & communicate effectively with colleagues including 		
	member in the own group as well as other groups		
Performance Criteria (PC) w.	r.t. the Scope		
Element	Performance Criteria		
Interact & communicate effectively with colleagues including member in the own group as well as other groups	 PC1. maintain clear communication with colleagues (by all means including face-to-face, telephonic as well as written) PC2. work with colleagues to integrate work PC3. pass on information to colleagues in line with organisational requirements both through verbal as well as non-verbal means PC4. work in ways that show respect for colleagues PC5. carry out commitments made to colleagues PC6. let colleagues know in good time if cannot carry out commitments, explaining the reasons PC7. identify problems in working with colleagues and take the initiative to solve these problems PC8. follow the organisation's policies and procedures for working with colleagues 		
Knowledge and Understandi	ng (K) w.r.t. the scope		
Element	Knowledge and Understanding		
A. Organisational Context (Knowledge of the	The user/individual on the job needs to know and understand:		
Company/Organisation	KA1. the organisation's policies and procedures for working with		
and its processes)	colleagues, role and responsibilities in relation to this		
	KA2. the importance of effective communication and establishing good working relationships with colleagues		
	KA3. different methods of communication and the circumstances in		
	which it is appropriate to use these		
	KA4. the importance of creating an environment of trust and mutual respect		
	KA5. the implications of own work on the work and schedule of others		
B. Technical Knowledge	The user/individual on the job needs to know and understand:		







	KB1. different types of information that colleagues might need and the		
	importance of providing this information when it is required		
	KB2. the importance of helping colleagues with problems, in order to		
	meet quality and time standards as a team		
Skills (S)w.r.t. the scope			
Element	Skills		
A. Core Skills/	Writing Skills		
Generic Skills	The user/individual on the job needs to know and understand how to:		
	SA1. complete written work with attention to detail		
	Reading Skills		
	The user/individual on the job needs to know and understand how to:		
	SA2. read instructions, guidelines/procedures		
	Oral Communication (Listening and Speaking skills)		
	The user/individual on the job needs to know and understand how to:		
	CA2 lister effectively and smally encourained information		
	SA3. listen effectively and orally communicate information		
D. Destandad Clilla	SA4. ask for clarification and advice from the concerned person		
B. Professional Skills	Decision Making		
The user/individual on the job needs to know and understand how			
	SB1. make decisions on a suitable course of action or response keeping		
	in view resource utilization while meeting commitments		
	Plan and Organise		
	The user/individual on the job needs to know and understand how to:		
	The user/individual on the job freeds to know and understand how to.		
	SB2. plan and organise work to achieve targets and deadlines		
	Customer Centricity		
	The user/individual on the job needs to know and understand how to:		
	SB3. check that the work meets customer requirements		
	SB4. deliver consistent and reliable service to customers		
	Problem Solving		
	The user/individual on the job needs to know and understand how to:		
	SB5. apply problem solving approaches in different situations		
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB6. apply balanced judgements to different situations		







NOS Version Control

NOS Code	ASC/ N 0002		
Credits(NSQF)	TBD	Version number	1
Industry	Automotive	Drafted on	10/06/13
Industry Sub-sector	NA	Last reviewed on	10/06/13
	22-64	Next review date	10/06/15









National Occupational Standards



Overview

This unit is about monitoring work place practices and making sure they meet requirements for health, safety, security and environmental concerns.







Unit Code	ASC/ N 0003		
Unit Title (Task)	Maintain a healthy, safe and secure working environment		
Description	This NOS unit is about monitoring the working environment and making sure it meets requirements for health, safety and security.		
Scope	This unit/task covers the following: Resources (both material & manpower) needed to maintain a safe working environment as per the prevalent norms & government policies including emergency procedures for Illness, accidents, fires or any other reason which may involve evacuation of the premises		
Performance Criteria (PC) w	.r.t. the Scope		
Element	Performance Criteria		
Resources needed to maintain a safe, secure	To be competent, the user/individual on the job must be able to:		
working environment	PC1. comply with 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. Coordinate with other resources at the workplace to achieve the healthy, safe and secure environment for all incorporating all government norms esp. for emergency situations like fires, earthquakes etc.		
	PC4. identify and correct any hazards like illness, accidents, fires or any other natural calamity safely and within the limits of individual's authority		
	PC5. report any hazards outside the individual's authority to the relevant person in line with organisational procedures and warn other people who may be affected		
	PC6. follow organisation's emergency procedures for accidents, fires or any other natural calamity		
	PC7. identify and recommend opportunities for improving health, safety, and security to the designated person		
	PC8. complete all health and safety records are updates and procedures well defined		
Knowledge and Understand	·		
Element	Knowledge and Understanding		
A. Organisational Context	The user/individual on the job needs to know and understand:		
(Knowledge of the Company/Organisation and its processes)	KA1. legislative requirements and organisation's procedures for health, safety and security and individual's role and		
	responsibilities in relation to this KA2. what is meant by a hazard, including the different types of health and safety hazards that can be found in the workplace KA3. how and when to report hazards		







ASC/ N 0003:	Maintain a healthy, safe and secure working environment	
	KA4. the limits of responsibility for dealing with hazards	
	KA5. the organisation's emergency procedures for different	
	emergency situations and the importance of following these	
	KA6. the importance of maintaining high standards of health, safety	
	and security	
	KA7. implications that any non-compliance with health, safety and	
	security may have on individuals and the organisation	
D. Taskaisal Kasudadas		
B. Technical Knowledge	The user/individual on the job needs to know and understand:	
	MD4 different to a soft and be a few after a few and be	
	KB1. different types of breaches in health, safety and security and how	
	and when to report these	
	KB2. evacuation procedures for workers and visitors	
	KB3. how to summon medical assistance and the emergency	
	services, where necessary	
	KB4. how to use the health, safety and accident reporting	
	Procedures and the importance of these	
Skills (S) w.r.t. the scope		
Element	Skills	
A. Core Skills/ Generic	Writing Skills	
Skills	The user/individual on the job needs to know and understand how to:	
	SA1. complete accurate, well written work with attention to detail	
	Reading Skills	
	The user/individual on the job needs to know and understand how to:	
	The aser/ marviadar on the job needs to know and understand now to.	
	SA2. read instructions, guidelines/procedures/rules	
	Oral Communication (Listening and Speaking skills)	
	The user/individual on the job needs to know and understand how to:	
	CA2 listen to and avally communicate information with all company	
2 2 6 1 10111	SA3. listen to and orally communicate information with all concerned	
B. Professional Skills	Decision Making	
	The user/individual on the job needs to know and understand how to:	
	SB1. make decisions on a suitable course of action or response	
	Plan and Organise	
	The user/individual on the job needs to know and understand how to:	
	SB2. plan and organise work to achieve targets and deadlines	
	Customer Centricity	
	The user/individual on the job needs to know and understand how to:	
	SB3. build and maintain positive and effective relationships with	
	colleagues and customers	
	Problem Solving	
	The user/individual on the job needs to know and understand how to:	
	The area, manuals, on the jew meets to know and and country to	







	SB4. apply problem solving approaches in different situations		
Analytical Thinking			
	The user/individual on the job needs to know and understand how to:		
SB5. analyse data and activities			
	Critical Thinking		
	The user/individual on the job needs to know and understand how to:		
	SB6. apply balanced judgements to different situations		









NOS Version Control

NOS Code	ASC/ N 0003		
Credits(NSQF)	TBD	Version number	1
Industry	Automotive	Drafted on	10/06/13
Industry Sub-sector	NA	Last reviewed on	10/06/13
	2-3	Next review date	10/06/15





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JOB ROLE	Service Technician (Two & three Wheelers)
	L
Qualification Pack	ASC/Q 1411
No. Of NOS	1 Role specific ,3 generic

NOS Title/ NOS Elements	NOS & Performance Criterion Description Carry out routine servicing & minor repairs of two / three wheelers		Marks ocation
ASC/N 1420			Practical
Carry out routine service & minor repairs of aggregates of two & three wheelers	To be competent, the user/individual on the job must be able to:		
	PC1. understand the auto component manufacturer specifications related to the various components/ aggregates in the two/ three wheeler vehicle PC2. follow standard operating procedures for using workshop	5	15
	tools and equipment for service and minor aggregate repairs in the two/ three wheeler vehicle PC3. conduct test drives to assess need for repairs, calibration		
	or any other adjustments in the electrical/ mechanical aggregates in the two/ three wheeler vehicle PC4. review the job card and understand work to be carried out	25	50
	PC5. ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior		
	PC6. calibrate, align and adjust settings, alignment, pressures, tension, speeds and levels relevant to:		
	engine and aggregatestransmission system	5	10
	chassiselectrical and electronic components		
	Scooter (two stroke engine)Scooter (four stroke engine)	5	15
	Motor cycle (two stroke engine)		15
	 Motor cycle (four stroke engine) Disc & drum brakes system		
	 other components (including to valves, ignition, fuel and emissions, transmission, lights, tyres, steering and body fittings) 		
	PC7. ensure that for routine maintenance and service, the correct spare parts and appropriate grade of lubricants,		





Coolant, oils and grease required have been obtained PC8. ensure all dismantled components (including mechanical and electrical aggregates) are cleaned and conditioned prior to reassembly PC9. identify and change components requiring change due to continuous wear and tear including: • oil and air filters • belts • wiper blades • brake linings and pads • drive PC10. ensure disposal of materials (including waste oil, scrap of failed parts/ aggregates) in accordance with the organisation's policies PC11. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on other aggregates PC12. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure PC13. ensure all workshop tools, equipment and workstations are adequately maintained by carrying out scheduled checks, calibration and timely repairs where necessary PC14. ensure any malfunctions observed in tools and equipment are reported to the concerned persons PC15. ensure any other repair requirements observed in the other components/ aggregates systems (like engine, gear box etc.) while repairing/ overhauling of braking systems are reported to supervisor/ service advisor for further inspection by other specialists PC16. able to measure/ inspect the machining or any other repair done from an outside source/ local machining garages PC17. utilise any computer-based applications relevant to service and repairs PC18. ensure that trainings organized by the OEM from time-to-time are attended and knowledge levels are upgraded (esp. in case of newly launched products, product	15	30
refreshes)		
, '		
subtotal	65	135
ASC/N 0001 Plan & organize work to meet expected outcome	Viva	Practical
To be commented the wear finding industry the internal parts of th		
Work requirements To be competent, the user/individual on the job must be able		
including various activities to: within the given time and PC1. keep immediate work area clean and tidy		





Qualification Pac	k for Automotive Service Technician (Two & Three Wheelers)		
set quality standards	PC2. treat confidential information as per the organisation's guidelines		
	PC3. work in line with organisation's policies and procedures		
	PC4. work within the limits of job role	13	27
	PC5. obtain guidance from appropriate people, where		
	necessary		
	PC6. ensure work meets the agreed requirements		
Appropriate use of			
resources	PC7. establish and agree on work requirements with		
	appropriate people	18	42
	PC8. manage time, materials and cost effectively		
	PC9. use resources in a responsible manner		
	subtotal	30	70
ASC/N 0002	Work effectively in a team	Viva	Practical
Interact & communicate	To be competent, the user/individual on the job must be able		
effectively with colleagues	to:		
including member in the	PC1. maintain clear communication with colleagues (by all		
own group as well as other	means including face-to-face, telephonic as well as		
groups	written)	3	
	PC2. work with colleagues to integrate work	1	
	PC3. pass on information to colleagues in line with	_	
	organisational requirements both through verbal as well	id.	
	as non-verbal means		
	PC4. work in ways that show respect for colleagues		
	PC5. carry out commitments made to colleagues	30	65
	PC6. let colleagues know in good time if cannot carry out		
	commitments, explaining the reasons		
	PC7. identify problems in working with colleagues and take		
	the initiative to solve these problems		
	PC8. follow the organisation's policies and procedures for		
	working with colleagues		
_	subtotal	30	65
ASC/N 0003	Maintain safe , healthy environment friendly workplace	Viva	Practical
Resources needed to	To be competent, the user/individual on the job must be able		
maintain a safe, secure	to:		
working environment			
	PC1. comply with 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. Coordinate with other resources at the workplace to		
	achieve the healthy, safe and secure environment for all		
	incorporating all government norms esp. for emergency		
	situations like fires, earthquakes etc.		
	PC4. identify and correct any hazards like illness, accidents,		





	Total	160	340
3	subtotal	35	70
PC8.	health, safety, and security to the designated person complete all health and safety records are updates and procedures well defined		
PC7.	accidents, fires or any other natural calamity identify and recommend opportunities for improving		
PC6.	procedures and warn other people who may be affected follow organisation's emergency procedures for		
PC5.	report any hazards outside the individual's authority to the relevant person in line with organisational		
	fires or any other natural calamity safely and within the limits of individual's authority	35	70

