SERVICE VEHICLE STEERING SYSTEM

UNIT CODE: ENG/OS/AUT/CR/5/5/A

Unit description:

This unit specifies competencies required to service vehicle steering system. It involves assess vehicle steering system, remove steering components, assess serviceability of vehicle, replace/service vehicle steering, fit and test vehicle steering components and document vehicle steering system service

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT		PERFORMANCE CRITERIA
		(Bold and italicized terms are elaborated in the Range)
1.	Assess vehicle steering system	 1.1Work area and steering units are prepared as per the workshop procedures 1.2 <i>Tools and equipment</i> are assembled as per job assignment 1.3 Vehicle steering system checklist is prepared based on workplace requirements 1.4 Personal protective clothing and equipment (<i>PPE</i>) is used as per <i>OSHA 2007</i> 1.5 Steering systems are visually inspected in accordance with service manual 1.6 Faulty steering components are identified as per the service manual
2.	Remove steering components	 2.1 <i>Technical information</i> is used according to the service manual 2.2 Vehicle is raised in accordance with workshop procedures 2.2 <i>Lubricants and fluids</i> are drained and disposed according to HSE&Q 2. Steering components are removed as per service manual
3.	Assess serviceability of vehicle steering components	 3.1 Steering components are disassembled as per the service manual 3.2 Steering components are cleaned in accordance with service manual 3.3 Serviceability of steering components is <i>assessed</i> as per the service manual
4.	Replace/service vehicle steering components	4.1 Worn/damaged components are replaced as per manufacturer's manual4.2 Replacement parts are verified against manufacturers' part numbers

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ELEMENT	PERFORMANCE CRITERIA
ELEWIENI	(Bold and italicized terms are elaborated in the Range)
	4.3 Steering components are re-assembled in accordance with manufacturers' specification4.4 Vehicle steering components are serviced according to the service manual
5. Fit and test vehicle steering components	 4.1 Steering components are fitted back as per service manual 4.2 Lubricants and fluids are replenished according to the service manual 4.3 Steering geometry is set in accordance with manufacturers' specifications 4.4 Steering system is tested as per the manufacturers specification
6. Finalize vehicle steering system service	 5.1. Steering service and repair is completed according to workplace policy/customer's specification 5.2 workshop/station is cleaned in accordance with work shop procedures 5.3 Waste is disposed as per OSH Act- 2007
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RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range
1. Steering components	Steering rack
may include but is not	• Tie rods;
limited to:	Steering box
	Steering column
	Universal joint/coupling
	Drop arm
	Dust rubber boot
	Steering wheel

Variable	Range	
 Assessment method may include but is no limited to: 	Vibual	
 Steering geometry wheel alignment ma include but is no limited to: 	• Castor	
 Service and repair records may includ but is not limited to: 		
 Job card may includ but is not limited to: 	 Date Job card number Customer order number Customers name Vehicle registration Tasks/repairs/services to be performed Person assigned the work Supervisor authorization 	Commented [RG1]:
5. Wastes may includ but is not limited to:	-	commenced [rest].
 Agreed timeframe main include but is not limited to: 		

REQUIRED KNOWLEDGE AND UNDERSTANDING

Required Skills

The individual needs to demonstrate the following foundation skills:

- Decision making;
- Multitasking;
- Communications (verbal and written);
- Proficient in ICT;
- Time management;

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- Problem solving;
- Planning
- First aid;
- Report writing;
- Record keeping
- Driving

Required knowledge

The individual needs to demonstrate knowledge of:

- Kenyan legislation and workplace procedures
- reporting
- sources of technical information
- wheel alignment and steering geometry measuring and adjusting equipment
- Construction and operation of suspension and steering systems
- The construction, layout and operation of different types of suspension systems,
- The principles of suspension and steering geometry

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1.	Critical	Aspects	of	Assessment requires evidence that the candidate:
1.		Aspects	01	-
Competency.		cy.		1.1 Worked in a safe and clean environment using
				personal protection and appropriate tools and
				equipment;
				1.2 Observed regulations concerned with health and
				safety and the disposal of waste
				1.3 Used technical information to remove and
				dismantle steering units
				1.4 Assessed vehicle steering components against
				manufacturers' specifications
				1.5 Repaired/serviced, replaced and restored
				components as per manufacturer's specification
				1.6 Reassembled steering components in accordance
				with manufacturers' specifications
				1.7 Completed steering system servicing within set
				time frame
				1.8 Documented steering servicing records as per
				customer specifications and company policy.
2.	Resource In	mplications		The following resources must be provided:
				2.1 A workshop that is fully equipped for servicing
				vehicle steering systems.
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2.2 Vehicle lift
2.3 Tool kits and vehicle steering equipment
2.4 Access to manufacturers' technical information
2.5 Facilities for the disposal of waste oil and scrap
parts
2.6 Customer database
2.7 Personal protection equipment
2.8 Computer
Competency may be assessed through:
5.1 Observation
5.2 Oral questioning
5.3 Written test
Competency may be assessed individually in
an actual workplace or in work-simulated
conditions within accredited institutions or
during industrial attachment.
Holistic assessment with other units relevant to the
industry sector, workplace and job role is
recommended.
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