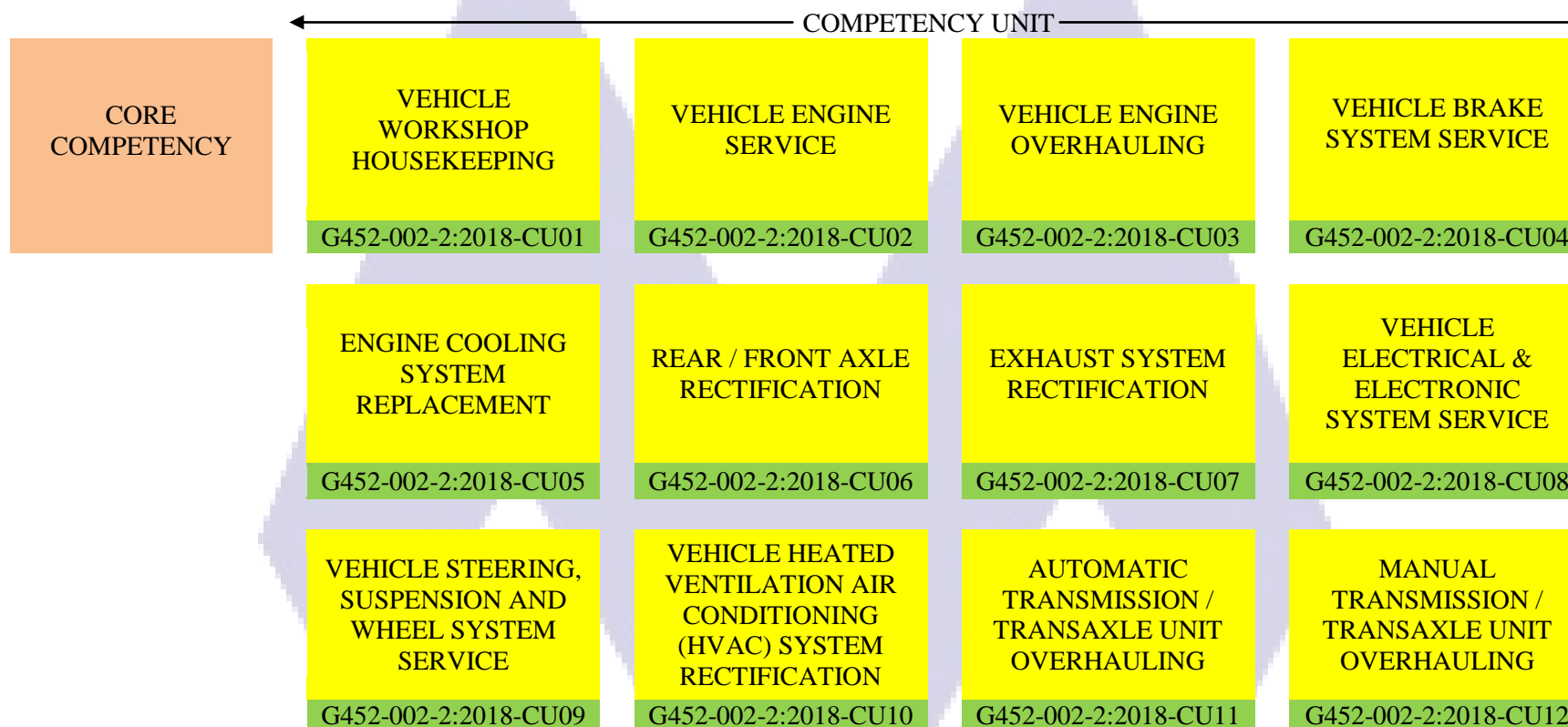


13. Competency Profile Chart (CPC)

SECTION	(G) WHOLESALE AND RETAIL TRADE; REPAIR OF MOTOR VEHICLES AND MOTORCYCLES		
GROUP	(452) MAINTENANCE AND REPAIR OF MOTOR VEHICLES		
AREA	LIGHT VEHICLE MAINTENANCE & SERVICE		
NOSS TITLE	LIGHT VEHICLE-REPAIR SERVICE		
NOSS LEVEL	TWO (2)	NOSS CODE	G452-002-2:2018



ELECTIVE
COMPETENCY

TRANSFER CASE
OVERHAULING

VEHICLE
CARBURETTOR
SERVICE

G452-002-2:2018-EU01

G452-002-2:2018-EU02

14. Competency Profile (CP)

SECTION	(G)Wholesale And Retail Trade; Repair Of Motor Vehicles And Motorcycles		
GROUP	(452)Maintenance And Repair Of Motor Vehicles		
AREA	Light Vehicle Maintenance & Service		
NOSS TITLE	Light Vehicle-Repair Service		
NOSS LEVEL	Two (2)	NOSS CODE	G452-002-2:2018

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
1. Vehicle Workshop Housekeeping G452-002-2:2018-CU01	Vehicle Workshop Housekeeping is the essential role of vehicle maintenance shops hygiene, safety and security conformant to enable services are rendered at worthiness condition. It is to utilize all resources for safeguarding vehicle maintenance shops to be at optimum comfort, at the same time complying with the legislative compliances. The importance of this competency unit is the ability to apply the standards procedures and measures to avoid injuries of people working in automotive workshops, creating and maintaining work safes expectations, and the principles to address health and safety problems in automotive workshops for enabling worthiness operation. The competency includes to identify workshop housekeeping requirements, prepare workshop housekeeping setup, perform workshop housekeeping activities, check workshop housekeeping conformance, and	1. Identify workshop housekeeping requirements.	1.1 Workshop housekeeping instructions is obtained for sorting housekeeping activities schedule. 1.2 Type of housekeeping area is determined for identifying workplace housekeeping requirement. 1.3 Type of tools, equipment and materials are determined for desirable housekeeping activities preparation.
		2. Prepare workshop housekeeping setup.	2.1 Signage for work procedures are arranged to allow risks mitigation. 2.2 Safety equipment are arranged for work safety. 2.3 Standard Operating Procedure (SOP) for workshop housekeeping is adhered to complying with standards working procedures. 2.4 Maintenance schedule for workshop housekeeping activities are listed for work arrangement.
		3. Perform workshop housekeeping activities.	3.1 Workshop safety practices are carried out for workplace housekeeping. 3.2 Workshop tools maintenance activities are carried out to enable safe functionality and application. 3.3 Workshops equipment housekeeping

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	<p>prepare workshop periodic report.</p> <p>The outcome of this competency is to perform essential roles of vehicle workshops layout organization structure, hygiene, safety and security conformant to enable services are rendered at worthiness condition. It is to utilize all resources for safeguarding vehicle workshops are at optimum comfort complying with the legislative compliances.</p>	<p>4. Check workshop housekeeping conformance.</p> <p>5. Prepare workshop periodic report.</p>	<p>and re-allocation are carried out for worthiness operation.</p> <p>3.4 Housekeeping compliances for legislative condition are checked to meet workplace standards.</p> <p>4.1 Workshop activities are being assessed for determining housekeeping performance.</p> <p>4.2 Workshop activities checklist is compiled for documenting housekeeping outcome.</p> <p>4.3 Tools, equipment & materials placement condition are checked for assessing worthiness operation.</p> <p>5.1 Housekeeping information and remarks are compiled for administrative function.</p> <p>5.2 Activities summary is reported to supervisor/ manager.</p> <p>5.3 Housekeeping compliance is documented for standards verification.</p>
<p>2. Vehicle Engine Service</p> <p>G452-002-2:2018-CU02</p>	<p>Vehicle Engine Service is an essential role for vehicle maintenance to ensure that oil levels are sufficiently topped up to avoid major faulty repair. The importance of this competency unit is to exchange the engine oil, replace the oil filter and change minor components of the engine.</p> <p>The competency includes to change lubrication oil & oil filter, change engine drive belt and tensioner, inspect exhaust systems components condition,</p>	<p>1. Change lubrication oil & oil filter.</p>	<p>1.1 Job order obtained and interpreted.</p> <p>1.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>1.3 Oil filter replaced in accordance with the workshop manual.</p> <p>1.4 Lubricant refilled out to meet the vehicle requirement according to the workshop manual.</p> <p>1.5 Lubrication leakage is checked to ensure worthiness of lubrication services.</p> <p>1.6 Next service indicator updated and presented.</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	change air filter, change fuel filter and change spark plugs.		1.7 Lubrication oil & oil filter replacement checklist updated in accordance with the workshop manual.
	The outcome of this competency is to be able to service the engine vehicle regularly or periodically to avoid major faulty after long mileage and ensuring vehicle are at optimum condition after lubrication service complying with vehicle lubrication manual & practice.	2. Change engine drive belt and tensioner.	2.1 Job order obtained and interpreted. 2.2 Tools, equipment and parts confirmed according to job requirement. 2.3 Engine drive belt and tensioner checked according to service manual. 2.4 Engine drive belt and tensioner replaced in accordance with the workshop manual. 2.5 Engine drive belt and tensioner replacement checklist updated in accordance with the workshop manual.
		3. Inspect exhaust system components condition.	3.1 Job order obtained and interpreted. 3.2 Tools, equipment and parts confirmed according to job requirement. 3.3 Exhaust system components condition are checked for leakages in accordance with the workshop manual. 3.4 Exhaust system components condition inspection checklist updated in accordance with the workshop manual.
		4. Change air filter.	4.1 Air filter condition is checked in accordance with the workshop manual. 4.2 Air filter replaced in accordance with the workshop manual. 4.3 Air filter replacement checklist updated in accordance with the workshop manual.
		5. Change fuel filter.	5.1 Fuel filter condition are checked in accordance with the workshop manual. 5.2 Fuel filter replaced in accordance with

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
		6. Change spark plugs.	<p>the workshop manual.</p> <p>5.3 Fuel filter replacement checklist updated in accordance with the workshop manual.</p> <p>6.1 Spark plugs condition are checked in accordance with the workshop manual.</p> <p>6.2 Spark plugs replaced in accordance with the workshop manual.</p> <p>6.3 Spark plug gap adjusted in accordance with the workshop manual.</p> <p>6.4 Spark plugs replacement checklist updated in accordance with the workshop manual.</p>
<p>3. Vehicle Engine Overhauling</p> <p>G452-002-2:2018-CU03</p>	<p>Vehicle Engine Overhauling is a scope of competency to examine and restore the diesel / petrol engine components to meet manufacturers specifications and tolerances during overhaul. Proper dimensions and tolerances must be met to obtain proper performance and maximum engine life. The importance of this competency unit is about the engine which has been removed, disassembled (torn down), cleaned, inspected, and replace parts as necessary and tested using workshop manual approved procedures. The</p>	<p>1. Conduct engine compression test.</p>	<p>1.1 Job order obtained and interpreted.</p> <p>1.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>1.3 Engine compression tests are completed in accordance with the workshop manual.</p> <p>1.4 Engine compression test reports prepared.</p> <p>1.5 Engine compression test reports compared to the manufacturers specifications.</p> <p>1.6 Engine overhaul recommendation is prepared in accordance with the workshop manual.</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	<p>procedure generally involves honing, new piston rings, bearings, gaskets, oil seals.</p> <p>The competency includes to conduct engine compression test, conduct engine cylinder leakages test, remove engine from vehicle, perform engine overhaul, reinstall engine onto vehicle and conduct engine test.</p>	<p>2. Conduct engine cylinder leakages test.</p>	<p>2.1 Engine cylinder leakage test using diagnostic tool are completed in accordance with the workshop manual.</p> <p>2.2 Engine cylinder leakage test reports compared to the manufacturers specifications.</p> <p>2.3 Engine overhaul recommendation is prepared and printed in accordance with the workshop manual.</p>
	<p>The outcome of this competency is to make sure no abnormal knocking sound, no visible and possible leaking from the engine and free from defect to ensure the engine functions in full optimal performance also defect free.</p>	<p>3. Remove engine from vehicle.</p>	<p>3.1 Vehicle operation fluids and lubricant are drained out in accordance with the workshop manual.</p> <p>3.2 Refrigerant gases are recovered in accordance with the workshop manual.</p> <p>3.3 Engine auxiliary components and attachments are removed in accordance with the workshop manual.</p> <p>3.4 Crane-out the engine from vehicle in accordance with the workshop manual.</p>
		<p>4. Perform engine overhaul.</p>	<p>4.1 Engine external components are removed in accordance with workshop manual.</p> <p>4.2 Engine internal components are removed and strip down in accordance with workshop manual.</p> <p>4.3 Engine parts and components are cleaned-up in accordance with workshop manual.</p> <p>4.4 Engine parts and components are inspected in accordance with the workshop manual.</p> <p>4.5 Engine part and components wear and tear are measured in accordance with the workshop manual.</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
			<p>4.6 Machine shop work is prepared according with the workshop manual are coordinated.</p> <p>4.7 Worn or damaged parts and components changed in accordance with the workshop manual.</p> <p>4.8 External and internal engine components reassembled.</p>
		5. Reinstall engine onto vehicle.	<p>5.1 Vehicle operation fluids and lubricants are refilled.</p> <p>5.2 Refrigerant gases are refilled.</p> <p>5.3 Engine auxiliary components and attachments are fitted.</p> <p>5.4 Engine is craned-in onto vehicle in accordance with the OEM specification.</p>
		6. Conduct engine test.	<p>6.1 Leakages are checked in accordance with the service manual.</p> <p>6.2 Abnormal noises are checked through audio inspection in accordance with the workshop manual.</p> <p>6.3 On Board Diagnostic (OBD) test is performed in accordance with the workshop manual.</p> <p>6.4 Vehicle test drive is carried out to determine the engine performance in accordance with the workshop manual.</p> <p>6.5 Final control test on the overall vehicle performance is performed in accordance with the OEM specification.</p> <p>6.6 Engine test report is prepared in accordance with the workshop manual.</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
4. Vehicle Brake System Service G452-002-2:2018-CU04	<p>Vehicle Brake System Service is a scope of competency to restore drum brake system or disc brake system in order to slow or stops the wheels and the vehicle. Importance of this competency unit is that the person can perform service on the brake system of the vehicle.</p> <p>The competency includes to inspect brake system condition, change brake system and change parking brake system components.</p> <p>The outcome of this competency is to make sure the continuous of the brake functions, free of any fluid leakages, and to ensure the safeness of the driver.</p>	1. Inspect brake system condition.	1.1 Job order obtained and interpreted. 1.2 Tools, equipment and parts confirmed according to job requirement. 1.3 Brake leakages condition is checked in accordance with hydraulic brake system condition inspection procedure. 1.4 Water vapour contamination level of the brake fluid is checked according with the workshop manual. 1.5 Inspection brake system condition checklist is prepared in accordance with the workshop manual.
		2. Change brake system components.	2.1 Brake system components replaced in accordance with workshop manual. 2.2 Brake system components replacement checklist prepared in accordance with the workshop manual.
		3. Change parking brake system components.	3.1 Parking brake components condition checked in accordance with the workshop manual. 3.2 Parking brake components replaced in accordance with the workshop manual. 3.3 Vehicle brake system service report is prepared in accordance with the workshop manual.
5. Engine Cooling System Replacement G452-002-2:2018-CU05	<p>Engine Cooling System Replacement is a scope of competency to examine and replace faulty engine cooling system and prevent engine from over-heating. Importance of this competency unit is that the person can perform faulty parts replacement for the engine cooling system.</p>	1. Conduct cooling system pressure test.	1.1 Job order obtained and interpreted. 1.2 Tools, equipment and parts confirmed according to job requirement. 1.3 Cooling system pressure test completed in accordance with the workshop manual. 1.4 Pressure test result acquired.
		2. Conduct cooling system parts functionality test.	2.1 Noise, vibration & harshness (NVH) abnormalities confirmed by cooling

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	<p>This competency includes conduct cooling system pressure test, conduct cooling system parts functionality test and change cooling system parts</p> <p>The outcome of this competency is to provide smooth engine cooling functions, free of noise and defects, maintain the temperature of the engine and to ensure efficiency of the cooling system.</p>	<p>3. Change cooling system parts.</p>	<p>system components functionality test.</p> <p>2.2 Cooling system components functionality test status checklist updated.</p> <p>3.1 Cooling system parts replaced in accordance with workshop manual.</p> <p>3.2 Cooling system parts functionality confirmed in accordance with workshop manual.</p> <p>3.3 Engine cooling system replacement report prepared in accordance with workshop manual.</p>
<p>6. Rear / Front Axle Rectification</p> <p>G452-002-2:2018-CU06</p>	<p>Rear / Front Axle Unit Rectification is a scope of competency to restore final-drive gears in order to reduce the speed of the axle shafts while increasing the torque applied to them and axle differential unit to allow different rates of wheel rotation on curves. Importance of this competency unit is that the person can perform rectification work on the rear / front axle of the vehicle.</p> <p>The competency includes inspect rear / front axle condition, dismantle rear / front axle differential unit and change rear / front axle differential components & parts.</p> <p>The outcome of this competency is to provide free of leakages, other defects and smooth performance of the rear / front axle.</p>	<p>1. Inspect rear / front axle condition.</p> <p>2. Dismantle rear / front axle differential unit.</p> <p>3. Change rear / front axle differential components &</p>	<p>1.1 Job order obtained and interpreted.</p> <p>1.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>1.3 Rear / front axle leakages are visually checked according to the workshop manual.</p> <p>1.4 Rear / front axle abnormal noise and vibration confirmed to determine the possibility worn out condition.</p> <p>2.1 Wheels are removed from the rear / front axle differential unit in accordance with the workshop manual.</p> <p>2.2 Differential gear oil drained in accordance with removing rear axle differential unit requirement.</p> <p>2.3 Drive shaft removed from vehicle in accordance with workshop manual.</p> <p>2.4 Rear / front axle differential unit attachment parts removed in accordance with the workshop manual.</p> <p>3.1 Rear / front axle differential unit dismantled in accordance with</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
		parts.	<p>workshop manual.</p> <p>3.2 Rear / front axle differential unit parts & components replaced in accordance with workshop manual.</p> <p>3.3 Rear / front axle differential unit assembled in accordance with the workshop manual.</p> <p>3.4 Rear / front axle differential unit installed into rear / front axle in accordance with workshop manual.</p> <p>3.5 Wheel installed to the vehicle in accordance with workshop manual.</p> <p>3.6 Pre-delivery inspection test is performed in accordance with workshop manual.</p> <p>3.7 Rear / front axle rectification report is prepared in accordance with the workshop manual.</p>
<p>7. Exhaust System Rectification</p> <p>G452-002-2:2018-CU07</p>	<p>Exhaust System Rectification is a scope of competency to ensure the exhaust gases discharged away from the engine into the air and muffle the noise of the exhaust. Importance of this competency unit is that the person can perform rectification work on exhaust system of the vehicle.</p> <p>The competency includes to inspect exhaust system components condition, change exhaust system components, and test exhaust system performance.</p> <p>The outcome of this competency is to provide free of leakages, noise &</p>	<p>1. Inspect exhaust system components condition.</p> <p>2. Change exhaust system components.</p> <p>3. Conduct exhaust system components performance test.</p>	<p>1.1 Job order obtained and interpreted.</p> <p>1.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>1.3 Exhaust System Components Condition checked in accordance with the workshop manual.</p> <p>1.4 Exhaust System Components Condition status checklist prepared in accordance with the workshop manual.</p> <p>2.1 Exhaust system components replaced in accordance with workshop manual.</p> <p>2.2 Exhaust system components replacement checklist status prepared.</p> <p>3.1 Exhaust system components replaced in accordance with workshop manual.</p> <p>3.2 Exhaust system components</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	vibration, good cosmetic value & performance of engine exhaust system and also to make sure safer environment.		replacement checklist status prepared. 3.3 Exhaust system rectification report prepared in accordance with the workshop manual.
8. Vehicle Electrical & Electronic System Service G452-002-2:2018-CU08	<p>Vehicle Electrical & Electronic System Service is a scope of competency to restore electrical and electronic system, producing electricity and delivering electric energy from these sources on demand to any other electrical components in the vehicle. Importance of this competency unit is that the person can perform service and replacement of parts on the electrical & electronic system of the vehicle.</p> <p>The competency includes the inspection of electrical & electronic components functionality, change electrical & electronic system parts & components, inspect chassis electrical system and change vehicle chassis electrical system components.</p> <p>The outcome of this competency is to provide clear engine ignition, combustion of the engine and a smooth fuel injection operation.</p>	1. Inspect electrical & electronic system parts & components functionality.	1.1 Job order obtained and interpreted. 1.2 Tools, equipment and parts confirmed according to job requirement. 1.3 Electrical & electronic system parts & components functionality checked in accordance with the workshop manual. 1.4 Inspection technical report prepared and submitted in accordance with workshop manual.
		2. Change electrical & electronic system parts & components.	2.1 Electrical & electronic system parts & components replaced in accordance with workshop manual. 2.2 Electrical & electronic system parts & components performance test performed in accordance with workshop manual. 2.3 Electrical & electronic system parts & components replacement report prepared in accordance with the workshop manual.
		3. Inspect chassis electrical system.	3.1 Electrical & electronic system parts & components functionality checked in accordance with the workshop manual. 3.2 Inspection technical report prepared and submitted in accordance with workshop manual.
		4. Change chassis electrical system components.	4.1 Chassis electrical system components replaced in accordance with workshop manual.

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
			4.2 Chassis electrical system components performance test performed in accordance with workshop manual. 4.3 Chassis electrical system components replacement report prepared in accordance with the workshop manual.
9. Vehicle Steering, Suspension and Wheel System Service G452-002-2:2018-CU09	<p>Vehicle Steering, Suspension and Wheel System Service is a scope of competency to ensure steering, wheel and suspension system are responsible for providing optimal ride comfort and handling performance. Importance of this competency unit is that the person can perform service and replacement of parts & components on the steering, suspension and wheel system of the vehicle.</p> <p>The competency includes to inspect steering, suspension and wheel system functionality, change steering system parts, replace suspension system parts and change vehicle tyres and rims.</p> <p>The outcome of this competency is to provide free leakages, vibration and stiff defect, smooth performance and operational of vehicle steering & wheels, free stiff, noise defect and safety ensure for suspension.</p>	<ol style="list-style-type: none"> 1. Inspect steering, suspension and wheel system functionality. 2. Change steering system parts. 3. Change suspension system parts. 	<ol style="list-style-type: none"> 1.1 Job order obtained and interpreted. 1.2 Tools, equipment and parts confirmed according to job requirement. 1.3 Steering, suspension and wheel system functionality checked in accordance with the workshop manual. 1.4 Inspection steering, suspension and wheel system functionality technical report prepared and submitted in accordance with workshop manual. 2.1 Steering system replaced in accordance with workshop manual. 2.2 Steering system performance test performed in accordance with workshop manual. 2.3 Steering system replacement report prepared in accordance with the workshop manual. 3.1 Suspension system parts replaced in accordance with workshop manual. 3.2 Suspension system parts performance test performed in accordance with workshop manual. 3.3 Suspension system parts replacement report prepared in accordance with the workshop manual.

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
		4. Change vehicle tyres and rims	4.1 Tyres and rims replaced in accordance with workshop manual. 4.2 Tyres and rims performance test performed in accordance with workshop manual. 4.3 Tyres and rims replacement report prepared in accordance with the workshop manual.
10. Vehicle Heated Ventilation Air Conditioning (HVAC) System Rectification G452-002-2:2018-CU10	<p>Vehicle Heated Ventilation Air Conditioning (HVAC) System Rectification is a competency to restore damaged or faulty air conditioning system components back to its original function. Importance of this competency unit is that the person can perform rectification work and parts replacement on the heated ventilation air conditioning (HVAC) system of the vehicle.</p> <p>The competency includes inspect heated ventilation air conditioning (HVAC) system condition, change heated ventilation air conditioning (HVAC) system parts and components and conduct heated ventilation air conditioning (HVAC) system performance test.</p> <p>The outcome of this competency is to ensure free leakages, free defect and temperature accuracy for cooling effect.</p>	1. Inspect heated ventilation air conditioning (HVAC) system condition. 2. Change heated ventilation air conditioning (HVAC) system parts and components.	1.1 Job order obtained and interpreted. 1.2 Tools, equipment and parts confirmed according to job requirement. 1.3 Heated ventilation air conditioning (HVAC) system functionality checked in accordance with the workshop manual. 1.4 Heated ventilation air conditioning (HVAC) system functionality inspection technical report prepared and submitted in accordance with workshop manual. 2.1 Air filter replaced in accordance with the workshop manual. 2.2 Condenser fan unit replaced in accordance with the workshop manual. 2.3 Heated ventilation air conditioning (HVAC) refrigerant recharged in accordance with the workshop manual. 2.4 Blower motor replaced in accordance with the workshop manual. 2.5 Perform blower motor switch & control resistor replacement. 2.6 Heated ventilation air conditioning (HVAC) system parts and components replacements prepared and submitted

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
		3. Conduct heated ventilation air conditioning (HVAC) system performance test.	<p>in accordance with workshop manual.</p> <p>3.1 Leakages checked in accordance with the workshop manual.</p> <p>3.2 Noise, vibration and harshness (NVH) checked in accordance with the workshop manual.</p> <p>3.3 Abnormal defect checklist prepared in accordance with the workshop manual.</p>
<p>11. Automatic Transmission / Transaxle Unit Overhauling</p> <p>G452-002-2:2018-CU11</p>	<p>Automatic Transmission / Transaxle Unit Overhauling is a scope of competency to restore automatic transmission / transaxle unit providing torque needed to move the vehicle under a variety of road and load condition. The importance of this competency unit is about the automatic transmission / transaxle unit which to be removed, disassembled (torn down), cleaned, inspected, and replace parts as necessary and tested using workshop manual approved procedures. The procedure generally involves honing, new parts, bearings, gaskets, oil seals.</p> <p>The competency includes to conduct automatic transmission / transaxle unit functional test, remove automatic transmission / transaxle from vehicle, perform automatic transmission / transaxle overhauling and install automatic transmission / transaxle into</p>	<p>1. Conduct automatic transmission / transaxle unit functional test.</p> <p>2. Remove automatic transmission / transaxle from vehicle.</p>	<p>1.1 Job order obtained and interpreted.</p> <p>1.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>1.3 Vehicle test is carried out to determine Automatic Transmission / Transaxle Unit functionality in accordance with the workshop manual.</p> <p>1.4 Automatic transmission / transaxle unit shifting condition is checked in accordance with workshop manual.</p> <p>1.5 Functional test report is prepared in accordance with workshop manual.</p> <p>2.1 Automatic transaxle/transmission fluid (ATF) drained in accordance with workshop manual.</p> <p>2.2 Automatic transmission / transaxle attachments detached in accordance with workshop manual.</p> <p>2.3 Torque converter removed from the vehicle in accordance with workshop manual.</p> <p>2.4 Automatic transmission / transaxle mount onto the overhaul stand in accordance with workshop manual.</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	<p>vehicle.</p> <p>The outcome of this competency is to ensure the smoothness of the transmission / transaxle unit shifting time, the quality of the shifting and free defect and malfunctions in accordance with OEM specifications.</p>	<p>3. Perform automatic transmission / transaxle overhauling.</p>	<p>3.1 Automatic transmission / transaxle internal components dismantled in accordance with workshop manual.</p> <p>3.2 Automatic transmission / transaxle components parts condition inspected in accordance with workshop manual.</p> <p>3.3 Automatic transmission / transaxle components parts replaced in accordance with workshop manual.</p> <p>3.4 Automatic transmission / transaxle unit reassembled in accordance with workshop manual.</p>
		<p>4. Install automatic transmission / transaxle into vehicle.</p>	<p>4.1 Automatic transmission / transaxle attachments reattached in accordance with workshop manual.</p> <p>4.2 Torque converter installed to the automatic transmission / transaxle unit.</p> <p>4.3 Automatic transmission / transaxle unit installed in accordance with workshop manual.</p> <p>4.4 Automatic Transmission / Transaxle Fluid (ATF) refilled in accordance with workshop manual.</p> <p>4.5 Automatic transmission / transaxle functionality test performed in accordance with the workshop manual.</p>
<p>12. Manual Transmission / Transaxle Unit Overhauling</p> <p>G452-002-2:2018-CU12</p>	<p>Manual Transmission / Transaxle Unit Overhauling is a scope of competency to restore manual Transmission / Transaxle providing torque needed to move the vehicle under a variety of road and load condition. The importance of this competency unit is about the manual</p>	<p>1. Conduct manual transmission / transaxle unit functional test.</p>	<p>1.1 Job order obtained and interpreted.</p> <p>1.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>1.3 Vehicle test is carried out to determine Manual Transmission / Transaxle Unit functionality in accordance with the workshop manual.</p> <p>1.4 Manual transmission / transaxle unit shifting condition is checked in</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	<p>transmission / transaxle unit which to be removed, disassembled (torn down), cleaned, inspected, and replace parts as necessary and tested using workshop manual approved procedures. The procedure generally involves honing, new parts, bearings, gaskets, oil seals.</p>		<p>accordance with workshop manual. 1.5 Functional test report is prepared in accordance with workshop manual.</p>
	<p>The competency includes to conduct manual transmission / transaxle unit functional test, remove manual transmission / transaxle from vehicle, perform clutch system overhaul, perform manual transmission / transaxle overhauling and install manual transmission / transaxle into vehicle</p>	<p>2. Remove manual transmission / transaxle from vehicle.</p>	<p>2.1 Manual transaxle/transmission fluid (MTF) drained in accordance with workshop manual. 2.2 Manual transmission / transaxle attachments detached in accordance with workshop manual. 2.3 Manual transmission / transaxle mount on the overhaul stand in accordance with workshop manual.</p>
	<p>The outcome of this competency is to ensure the smoothness of the transmission unit shifting time, the quality of the shifting and free defect and malfunctions in accordance with OEM specifications.</p>	<p>3. Perform clutch system overhaul.</p>	<p>3.1 Clutch system functionality test performed in accordance with workshop manual. 3.2 Clutch system assembly disassembled in accordance with workshop manual. 3.3 Clutch system parts & components replaced in accordance with workshop manual. 3.4 Clutch system assembly assembled in accordance with workshop manual.</p>
		<p>4. Perform manual transmission / transaxle overhauling.</p>	<p>4.1 Manual transmission / transaxle internal components dismantled in accordance with workshop manual. 4.2 Manual transmission / transaxle components parts condition inspected in accordance with workshop manual. 4.3 Manual transmission / transaxle components parts replaced in accordance with workshop manual. 4.4 Manual transmission / transaxle unit reassembled in accordance with workshop manual.</p>

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
		5. Install manual transmission / transaxle into vehicle.	5.1 Manual transmission / transaxle attachments reattached in accordance with workshop manual. 5.2 Manual transmission / transaxle unit installed in accordance with workshop manual. 5.3 Manual Transmission / Transaxle Fluid (MTF) refilled in accordance with workshop manual. 5.4 Manual transmission / transaxle functionality test performed in accordance with the workshop manual.
13. Transfer Case Overhauling G452-002-2:2018-EU01	<p>Transfer Case Overhauling is a scope of competency to ensure transfer case to provide power-flow to front and rear axle. The importance of this competency unit is about the transfer case which to be removed, disassembled (torn down), cleaned, inspected, and replace parts as necessary and tested using workshop manual approved procedures. The procedure generally involves honing, new parts, bearings, gaskets, oil seals.</p> <p>The competency includes conduct transfer case unit functional test, remove transfer case unit from vehicle, perform transfer case unit overhauling and install transfer case unit into vehicle.</p> <p>The outcome of this competency is to ensure the smoothness of the gear</p>	1. Conduct transfer case unit functional test. 2. Remove transfer case unit from vehicle. 3. Perform transfer case unit overhauling.	1.1 Job order obtained and interpreted. 1.2 Tools, equipment and parts confirmed according to job requirement. 1.3 Vehicle test is carry out to determine transfer case unit functionality in accordance with the workshop manual. 1.4 Transfer case unit shifting condition is checked in accordance with workshop manual. 1.5 Transfer case functional test report is prepared in accordance with workshop manual. 2.1 Transfer case gear oil drained in accordance with workshop manual. 2.2 Transfer case attachments detached in accordance with workshop manual. 2.3 Transfer case mount on the overhaul stand in accordance with workshop manual. 3.1 Transfer case unit internal components dismantled in accordance with workshop manual. 3.2 Transfer case unit components parts

CU TITLE & CU CODE	CU DESCRIPTOR	WORK ACTIVITIES	PERFORMANCE CRITERIA
	engage, the quality of the shifting and free defect and malfunctions in accordance with OEM specifications.	4. Install transfer case unit into vehicle.	<p>condition inspected in accordance with workshop manual.</p> <p>3.3 Transfer case unit components parts replaced in accordance with workshop manual.</p> <p>3.4 Transfer case unit reassembled in accordance with workshop manual.</p> <p>4.1 Transfer case unit attachments reattached in accordance with workshop manual.</p> <p>4.2 Transfer case unit installed in accordance with workshop manual.</p> <p>4.3 Transfer case unit gear oil refilled in accordance with workshop manual.</p> <p>4.4 Transfer case unit functionality test performed in accordance with the workshop manual.</p>
<p>14. Vehicle Carburettor Service</p> <p>G452-002-2:2018-EU02</p>	<p>Vehicle Carburettor Service is a scope of competency to rectify faulty carburettor system in accordance with manufactures workshop manual.</p> <p>The competency includes inspect carburettor functionality, overhaul carburettor and perform carburettor tuning.</p> <p>The outcome of this competency is to ensure the smoothness of the engine, optimum performance and free defect and malfunctions in accordance with OEM specifications.</p>	<p>1. Inspect carburettor functionality.</p> <p>2. Overhaul carburettor.</p>	<p>1.1 Job order obtained and interpreted.</p> <p>1.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>1.3 Carburettor leakages condition is visually checked in accordance with inspection procedure.</p> <p>1.4 Carburettor idling speed performance is checked in accordance to workshop manual.</p> <p>1.5 Carburettor acceleration performance is checked in accordance with workshop manual.</p> <p>2.1 Job order obtained and interpreted.</p> <p>2.2 Tools, equipment and parts confirmed according to job requirement.</p> <p>2.3 Carburettor attachments are removed in accordance with workshop manual.</p>

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			<p>2.4 Carburettor is removed from the intake manifold in accordance with the workshop manual.</p> <p>2.5 Carburettor components are dismantled in accordance with the workshop manual.</p> <p>2.6 Carburettor components worn out or damage conditions are determined in accordance with the workshop manual.</p> <p>2.7 Carburettor components are cleaned in accordance with service requirement.</p> <p>2.8 Carburettor components are changed in accordance with the workshop manual.</p> <p>2.9 Carburettor components are reassembled in accordance with workshop manual.</p> <p>2.10 Carburettor is mounted to intake manifold in accordance with the workshop manual.</p> <p>2.11 Carburettor attachments are reassembled in accordance with workshop manual.</p>
		<p>3. Perform carburettor tuning.</p>	<p>3.1 Carburettor idling tuning test is performed in accordance with service manual.</p> <p>3.2 Carburettor acceleration tuning test is performed in accordance with service manual.</p> <p>3.3 Carburettor choke tuning test is performed in accordance with service manual.</p>