CORE COMPETENCIES 279 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
1. Perform predelivery inspection	1.1 Prepare for preedelivery inspection	 Identify required items before predelivery inspection on the vehicle Prepare required items in the vehicle Install factory-loaded parts on the vehicle Removal of emergency towing eyelets, spring locks, labels, tags, stickers, covers and body protective films Adjust tire pressure into standard pressure based on manufacturer's standards 	 Lecture- Discussion Demonstration Video presentation Film viewing 	Written exam Demonstration Oral questioning	9 hrs
	1.2 Perform physical and functional inspection	 Check all electrical components operation in the vehicle Check all fluid level in the vehicle Check the vehicle for leaks Check the vehicle performance Check minor defects of the vehicle Accomplish inspection checklist based on manufacturers standards 	 Lecture- Discussion Demonstration Video presentation Film viewing 	Written exam Demonstration Oral questioning	16 hrs
	1.3 Complete work processes	 Perform engine oil top-up based on Manufacturer's standards Perform Automatic Transmission oil top-up based on Manufacturer's standards Perform Brake fluid top-up based on 	 Lecture- Discussion Demonstration Video presentation Film viewing 	Written exam Demonstration Oral questioning	8 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		 Manufacturer's standards Perform Coolant oil top-up based on Manufacturer's standards 			
2. Perform periodic maintenance of automotive engine	2.1 Prepare for inspection and service engine	 Determine job requirements from workplace instructions Source and interpret servicing information Identify hazards associated with the work and manage risks Select tools, equipment and materials and check it's serviceability 	 Lecture Demonstration Video presentation Workshop visit 	Demonstration Written exam Interview	41 hrs
	2.2 Inspect engine	 Carried out inspection according to manufacturer specifications, workplace procedures and safety requirements Compared inspection results with manufacturer specifications Report inspection findings according to workplace procedures, including recommendations for necessary repairs or adjustments 	 Lecture Demonstration Video presentation Workshop visit 	Demonstration Written exam Interview	47 hrs
	2.3 Service engine	 Carry out service and adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems Carry out post-service testing according to workplace procedures 	 Lecture Demonstration Video presentation Workshop visit 	Demonstration Written exam Interview	28 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	2.4 Complete work processes	 Make final inspection to ensure work is according to workplace expectations and vehicle or machinery is presented ready for use Clean work area, dispose waste and non-recyclable materials and collect recyclable material Check tools and equipment and store according to workplace procedures Process workplace documentation according to workplace procedures 	 Lecture Demonstration Video presentation Workshop visit 	DemonstrationWritten examInterview	20 hr
3. Perform periodic maintenance of drive train	3.1 Perform preservice preparations	 Determine job requirements Source servicing information from service manual Use vehicle mileage as reference for changing fluid Inspect transmission fluids condition Acquire transmission fluids Prepare tools for periodic maintenance of drive train Manage hazards and risks 	 Lecture Demonstration Video presentation Workshop visit 	Demonstration Written exam Interview	6 hrs
	3.2 Conduct periodic maintenance of drive trains	 Drain fluids Replace fluids Clean drain plug Replace drain plug washers Lubricate propeller shafts Inspect cracks and leaks of drive train components Report findings to immediate superior 	 Lecture Demonstration Video presentation Workshop visit 	DemonstrationWritten examInterview	16 hrs

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
-		Apply safety practices		• •	
	3.3 Perform post- service activities	 Confirm fluid level Dispose wastes Perform final inspection Write down job done Restore workplace 	LectureDemonstrationVideo presentationWorkshop visit	Demonstration Written exam Interview	6 hrs
4. Perform periodic maintenance of brake system	4.1 Prepare for periodic maintenance of brake system	 Demonstrate Job requirements are determined based on brake system repair order Explain the service information sourced from the service manual Prepare tools based on suspension system repair order Explain hazards and risks associated in the workplace are managed following OSHS Job and inspection performed is written/noted down on the repair order. 	 Lecture- Discussion Demonstration Video presentation Film viewing 	Written exam Demonstrate Oral questioning	4 hours
	4.2 Carry-out periodic maintenance procedures	 Demonstrate inspection of Brake system components according manufacturer's service workshop manual Enumerate brake system components are replaced according manufacturer's service workshop manual Demonstrate cleaning & lubrication of Brake caliper guide pins 	 Lecture- Discussion Demonstration Video presentation Film viewing 	Written exam Demonstrate Oral questioning	20 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	4.3 Complete periodic maintenance procedure	 Demonstrate bleeding of brake system according to service workshop manual Demonstrate Adjustment of Parking brake lever/pedal travel and cable tension according to service workshop manual Demonstrate calibration of Electric parking brake according to service workshop manual Explain reports of findings and recommendations to immediate superior following company's standard procedures Apply safety practices Explain wastes disposal according to good housekeeping practices Perform Road test following established standard operating 	 Lecture- Discussion Demonstration Video 	Written exam Demonstrate Oral questioning	4 hours
		 procedure Explain Job done written on the Repair Order Workplace is restored according company's standard procedure 	presentation • Film viewing		
5. Perform periodic maintenance of suspension system	5.1 Perform pre- periodic maintenance of suspension system	 State the basic function of the suspension system Identify the different types of suspension system Explain the features of the different 	LectureDemonstrationVideo presentationWorkshop visit	DemonstrationWritten examInterviewRole play	6 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		 types of suspension system Identify the tools, equipment and materials required to service suspension system Identify the different safety precautions, hazards and risks when servicing suspension system Prepare tools, materials and equipment to be used for suspension system service 			
	5.2 Apply periodic maintenance procedures	 Explain why tightening torque must be in accordance with the specified torque Identify the suspension system fasteners that requires inspection of tightening torque Describe how to check suspension system components Describe how to use the torque wrench Describe how to check tires Describe how to check wheels Describe how to check wheel bearing Describe how to use the vernier caliper. Describe how to use the dial gauge Apply safety practice when conducting suspension system maintenance 	 Lecture Demonstration Video presentation Workshop visit 	 Demonstration Written exam Interview Role play 	16 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	5.3 Perform work to completion	 Demonstrate the correct method for handling of torque wrench Demonstrate how to use torque when tightening suspension system fasteners Demonstrate how to check tires using a vernier caliper Demonstrate how to check wheel bearing axial play using a dial gauge Demonstrate how to check tire axial run-out Write job done on the repair order Recognize good housekeeping practices (5S) Demonstrate the proper storage of torque wrench Demonstrate the proper storage of vernier caliper Demonstrate the proper storage of dial gauge Conduct final inspection on job performed Report findings and recommendations to immediate superior Perform good housekeeping practices before and after each job 	 Lecture Demonstration Video presentation Workshop visit 	Demonstration Written exam Interview Role play	8 hours
6. Perform periodic	6.1 Perform pre- periodic	 State the basic function of the steering system 	LectureDemonstration	DemonstrationWritten exam	8 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
maintenance of steering system	maintenance of steering system	 Identify the different types of steering system Identify the tools, equipment and materials required to service steering system Identify the different safety precautions, hazards and risks when servicing steering system Prepare tools, materials and equipment to be used for steering system service 	Video presentationWorkshop visit	InterviewRole play	
	6.2 Apply periodic maintenance procedures	 Explain why tightening torque must be in accordance with the specified torque Identify the steering system fasteners that requires inspection of tightening torque Describe how to check steering system components Describe how to use the torque wrench Describe how to replace power steering fluid Describe how to check if malfunction exist on electric power steering Apply safety practice when conducting steering system maintenance Demonstrate the correct method for 	 Lecture Demonstration Video presentation Workshop visit 	 Demonstration Written exam Interview Role play 	12 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	6.3 Perform work to completion	 handling of torque wrench Demonstrate how to use torque when tightening steering system fasteners Demonstrate how to replace power steering fluid Demonstrate how to check electric power steering malfunction Write job done on the repair order Recognize good housekeeping practices (5S) Demonstrate the proper storage of torque wrench Conduct final inspection on job performed Report findings and recommendations to immediate superior Perform good housekeeping practices before and after each job 	 Lecture Demonstration Video presentation Workshop visit 	 Demonstration Written exam Interview Role play 	4 hours