

**SKILLS FRAMEWORK FOR PUBLIC TRANSPORT
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Automotive Maintenance					
TSC	Bus Steering and Suspension Systems Maintenance					
TSC Description	Implement corrective and preventive maintenance of bus steering and suspension systems					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	PTP-AMT-1007-1.1	PTP-AMT-2007-1.1	PTP-AMT-3007-1.1	PTP-AMT-4007-1.1		
	Carry out scheduled preventive maintenance and serviceability checks on bus steering and suspension systems	Conduct corrective maintenance on bus steering and suspension systems	Troubleshoot faulty bus steering and suspension systems to locate faults and recommend rectification methods	Diagnose root causes of recurring faults on bus steering and suspension systems to resolve systemic failures		
Knowledge	<ul style="list-style-type: none"> System layout and operating functions of bus steering and suspension systems Operating functions of different types of bus suspension systems Types of components and parts of bus steering and suspension systems Procedures for preventive maintenance on bus steering and suspension systems in accordance to organisational procedures, Work Instructions (WI) and/or Original Equipment Manufacturer (OEM) technical manuals Procedures for inspection and serviceability checks on bus steering and suspension systems Types of maintenance supplies, spare parts and consumables for bus steering and suspension systems maintenance 	<ul style="list-style-type: none"> System layout and operating functions of bus steering and suspension systems Types of components and parts of bus steering and suspension systems Operating functions of different types of bus suspension systems Steering angles and alignment concepts of wheels and tyres Types of faults for bus steering and suspension systems Procedures and methods to disassemble, repair and/or replace faulty bus steering and suspension components Functional test procedures on bus steering and suspension systems Types of maintenance supplies, spare parts and consumables for bus steering and suspension systems maintenance 	<ul style="list-style-type: none"> Operating principles of bus steering and suspension systems Types of troubleshooting and rectification techniques for bus steering and suspension systems maintenance Types of fault identification methods for bus steering systems Signs of defective or degenerated components within bus steering and suspension systems Safety guidelines on usage of tools and equipment to troubleshoot bus steering and suspension systems 	<ul style="list-style-type: none"> Operating principles of bus steering and suspension systems Types and causes of systemic failures on bus steering and suspension systems Types of failure investigation and prevention methods Types of diagnostic tools and equipment Diagnostic procedures for bus steering and suspension systems and components Organisational maintenance procedures, Work Instructions (WI) and/or Original Equipment Manufacturer (OEM) technical recommendations Methods to develop maintenance WI 		

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	<ul style="list-style-type: none"> Types and safe usage of tools and equipment for performing preventive maintenance work Types and usage of Personal Protective Equipment (PPE) Organisational maintenance documentation and fault reporting procedures 	<ul style="list-style-type: none"> Types and safe usage of tools and equipment for performing corrective maintenance work Organisational maintenance documentation and fault reporting procedures 				
Abilities	<ul style="list-style-type: none"> Prepare tools, equipment, materials and checklists required for preventive maintenance tasks Carry out scheduled preventive maintenance tasks on bus steering and suspension systems according to organisation procedures, WI and/or OEM technical manuals Inspect the condition and serviceability of bus steering and suspension systems Follow organisation procedures, WI and/or OEM technical manual instructions on tools and equipment during maintenance work Document maintenance activities performed on bus steering and suspension systems Report occurrences of potential faults and defects identified 	<ul style="list-style-type: none"> Interpret work orders to determine corrective maintenance tasks Coordinate the preparation of resources required for corrective maintenance activities Recognise defective components and parts on bus steering and suspension systems for corrective maintenance work Disassemble bus steering and suspension systems for corrective maintenance Carry out repair and/or replacement of faulty components and parts Reassemble and reinstate bus steering and suspension systems Perform functionality tests on bus steering and suspension systems Apply operating and safety measures during maintenance work Collate and document maintenance activities performed on bus steering and suspension systems 	<ul style="list-style-type: none"> Implement troubleshooting procedures to investigate causes of faults in bus steering and suspension systems Recommend corrective actions to defects identified on bus steering and suspension systems Implement procedures on safe usage of tools and equipment during maintenance work Analyse maintenance activities documented for bus steering and suspension systems to identify maintenance workflow improvements 	<ul style="list-style-type: none"> Establish failure investigation and specify functional testing requirements Perform fault analysis to address systemic failures on bus steering and suspension systems Review data gathered from diagnostic procedures to recommend rectification solutions for recurring faults identified on bus steering and suspension systems Analyse performance of bus steering and suspension systems to evaluate effectiveness of recommended rectification solutions Review corrective and preventive maintenance regime of bus steering and suspension systems to ascertain effectiveness of maintenance procedures Propose new and/or enhanced bus steering and suspension systems maintenance WI in reference to OEM 		

				technical recommendations		
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