

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

TSC Category	Automotive Maintenance					
TSC	Bus Brake Systems Maintenance					
TSC Description	Implement corrective and preventive maintenance of bus brake systems					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	PTP-AMT-1003-1.1	PTP-AMT-2003-1.1	PTP-AMT-3003-1.1	PTP-AMT-4003-1.1		
	Carry out scheduled preventive maintenance and serviceability checks on bus brake systems	Conduct corrective maintenance on bus brake systems	Troubleshoot faulty bus brake systems to locate faults and recommend rectification methods	Diagnose root causes of recurring faults on bus brake systems to resolve systemic failure issues		
Knowledge	<ul style="list-style-type: none"> System layout and operating functions of bus brake systems Types of components and parts of bus brake systems Procedures for preventive maintenance on bus brake 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 brake systems Types of maintenance supplies, spare parts and consumables for bus brake systems maintenance Types and safe usage of tools and equipment for performing preventive maintenance work Types and usage of Personal Protective Equipment (PPE) 	<ul style="list-style-type: none"> System layout and operating functions of bus brake systems Types of components and parts of bus brake systems Methods to rectify air-pressure build up in bus brake systems Types of faults for bus brake systems Procedures and methods to disassemble, repair and/or, replace bus brake systems Functional test procedures on bus brake systems Types of maintenance supplies, spare parts and consumables for bus brake systems maintenance Types and usage of Personal Protective Equipment (PPE) Organisational maintenance documentation and fault reporting procedures 	<ul style="list-style-type: none"> Operating principles of bus brake systems and its components Types of troubleshooting and rectification techniques for bus brake systems maintenance Types of fault identification methods for bus brake systems Signs of defective or degenerated components and parts within bus brake systems Safety guidelines on usage of tools and equipment to troubleshoot bus brake systems 	<ul style="list-style-type: none"> Operating principles of bus brake systems and its components Principles of braking dynamics Types and causes of systemic failures of bus brake systems Types of failure investigation and prevention methods Types of diagnostic tools and equipment Diagnostic procedures for bus brake 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"> 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 brake systems according to organisation procedures, WI and/or OEM technical manuals Inspect the condition and serviceability of bus brake systems Follow organisation procedures, WI and/or OEM technical manual instructions on safety handling of tools and equipment during maintenance work Document maintenance activities performed on bus brake systems Report occurrences of 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 brake systems for corrective maintenance work Disassemble bus brake systems for corrective maintenance Carry out repair and/or replacement of faulty components and parts Reassemble and reinstate bus brake systems Perform functionality tests on bus brake systems Apply operating and safety measures during maintenance work Collate and document maintenance activities performed on bus brake systems 	<ul style="list-style-type: none"> Implement troubleshooting procedures to investigate causes of faults in bus brake systems Recommend corrective actions on defects identified on bus brake systems Implement procedures on safe usage of tools and equipment during maintenance work Analyse maintenance activities documented for bus brake 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 brake systems Review data gathered from diagnostic procedures to recommend rectification solutions for recurring faults identified in bus brake systems Analyse performance of bus brake systems to evaluate effectiveness of rectification solutions Review corrective and preventive maintenance regimes of bus brake systems to ascertain effectiveness of maintenance procedures Propose new and/or enhanced bus brake systems maintenance WI in reference to OEM technical recommendations 		