

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

TSC Category	Automotive Maintenance					
TSC	Bus Drivetrain Systems Maintenance					
TSC Description	Implement corrective and preventive maintenance of bus drivetrain systems					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	PTP-AMT-1004-1.1	PTP-AMT-2004-1.1	PTP-AMT-3004-1.1	PTP-AMT-4004-1.1		
	Carry out scheduled preventive maintenance and serviceability checks on bus drivetrain systems	Conduct corrective maintenance on bus drivetrain systems	Troubleshoot faulty bus drivetrain systems to locate faults and recommend rectification methods	Diagnose root causes of recurring faults on bus drivetrain systems to resolve systemic failures		
Knowledge	<ul style="list-style-type: none"> System layout and operating functions of bus drivetrain systems Types of components and parts of bus drivetrain systems Procedures for preventive maintenance on bus drivetrain 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 drivetrain systems Types of maintenance supplies, spare parts and consumables for bus drivetrain systems maintenance Types and safe usage of tools and equipment for performing preventive maintenance work Types and usage of Personal Protective Equipment (PPE) Organisational maintenance 	<ul style="list-style-type: none"> System layout and operating functions of bus drivetrain systems Types of components and parts of bus drivetrain systems Types of faults of bus drivetrain systems Procedures and methods to disassemble, repair and/or replace faulty bus drivetrain sub-systems, components and parts Functional test procedures on bus drivetrain systems Types of maintenance supplies, spare parts and consumables for bus drivetrain systems maintenance Types and safe usage of tools and equipment for performing corrective maintenance work 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 drivetrain systems Types of troubleshooting and rectification techniques for bus drivetrain systems maintenance Types of fault identification methods for bus drivetrain systems Signs of defective or degenerated components and parts within bus drivetrain systems Safety guidelines on usage of tools and equipment to troubleshoot bus drivetrain systems 	<ul style="list-style-type: none"> Operating principles of bus drivetrain systems Types and causes of systemic failures on bus drivetrain systems Types of failure investigation and prevention methods Types of diagnostic tools and equipment Diagnostic procedures for bus drivetrain 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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	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 drivetrain systems according to organisation procedures, WI and/or OEM technical manuals • Inspect the condition and serviceability of bus drivetrain systems • Follow organisation procedures, WI and/or OEM technical manual instructions on safe handling of tools and equipment during maintenance work • Document maintenance activities performed on bus drivetrain 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 drivetrain sub-systems for corrective maintenance work • Disassemble bus drivetrain systems for corrective maintenance • Carry out repair and/or replacement of faulty components and parts • Reassemble and reinstate bus drivetrain systems • Perform functionality tests on bus drivetrain systems • Apply operating and safety measures during maintenance work • Collate and document maintenance activities performed on bus drivetrain systems 	<ul style="list-style-type: none"> • Implement troubleshooting procedures to investigate causes of faults in bus drivetrain systems • Recommend corrective actions to defects identified on bus drivetrain systems • Implement procedures on safe usage of tools and equipment during maintenance work • Analyse maintenance activities documented for bus drivetrain 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 drivetrain systems • Review data gathered from diagnostic procedures to recommend rectification solutions for recurring faults identified on bus drivetrain systems • Analyse performance of bus drivetrain systems to evaluate effectiveness of recommended rectification solutions • Review corrective and preventive maintenance regime of bus drivetrain systems to ascertain effectiveness of maintenance procedures • Propose new and/or enhanced bus drivetrain systems maintenance WI by in reference to OEM technical recommendations 		