

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

TSC Category	Rail Systems Maintenance					
TSC	Rolling Stock Car Body Maintenance					
TSC Description	Implement preventive and corrective maintenance activities of rolling stock car body					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	PTP-RSM-1030-1.1	PTP-RSM-2030-1.1	PTP-RSM-3030-1.1	PTP-RSM-4030-1.1		
	Carry out scheduled preventive maintenance on rolling stock car body	Conduct corrective maintenance on rolling stock car body	Troubleshoot faulty rolling stock car body components to locate faults and recommend rectification methods	Diagnose root causes of rolling stock car body failure and review maintenance plans to prevent fault recurrence		
Knowledge	<ul style="list-style-type: none"> Operating principles, functions and features of rolling stock car body components and parts Components and parts of rolling stock car body that includes: <ul style="list-style-type: none"> Gangways Door control systems Coupler Car body shell Windows Seats, grab poles and hand straps Floor panes Procedures to service and maintain rolling stock car body components and parts in accordance to organisational maintenance procedures, Work Instructions (WI) and/or Original Equipment Manufacturer (OEM) technical manuals Types and usage of tools and equipment for carrying out preventive maintenance on rolling stock car body components and parts 	<ul style="list-style-type: none"> Operating principles, functions and features of rolling stock car body components and parts Components and parts of rolling stock car body that includes: <ul style="list-style-type: none"> Gangways Door control systems Coupler Car body shell Windows Seats, grab poles and hand straps Floor panes Rolling stock car body schematic drawings Common wears and failures of rolling stock car body components and parts Procedures for conducting system performance checks and identifying faults on rolling stock car body components and parts Procedures to dismantle rectify, repair and/or replace faulty rolling stock car body 	<ul style="list-style-type: none"> Rolling stock car body schematic drawings Common fault symptoms in rolling stock car body components and parts Principles of collision and derailment Methods of locating and rectifying faults Types and usage of troubleshooting techniques, equipment and tools Safety guidelines for usage of tools and equipment to execute troubleshooting on rolling stock car body components and parts 	<ul style="list-style-type: none"> Factors affecting rolling stock car body components and parts performance Failure investigation and prevention methods Principles of collision and derailment Methods and tools for diagnostic analysis Organisational maintenance procedures, Work Instructions (WI) and Original Equipment Manufacturer (OEM) technical recommendations Types and methods of functional tests on rolling stock car body and components Functional relationships between rolling stock car body, other rolling stock systems, plant equipment and the overall rail systems 		

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	<ul style="list-style-type: none"> • Safety guidelines on the use of tools and equipment for preventive maintenance on rolling stock car body • Types and usage of Personal Protective Equipment (PPE) for rolling stock car body maintenance • Organisational maintenance documentation and fault reporting procedures 	<p>components, and re-assemble</p> <ul style="list-style-type: none"> • Types and usage of tools and equipment for carrying out corrective maintenance • Safety guidelines on use of tools and equipment for corrective maintenance on rolling stock car body • Types and usage of Personal Protective Equipment (PPE) for rolling stock car body maintenance • Organisational maintenance documentation and fault reporting procedures 				
Abilities	<ul style="list-style-type: none"> • Perform preparation work to conduct maintenance on rolling stock car body • Follow organisational maintenance procedures, WI and/or OEM technical manuals to carry out preventive maintenance on rolling stock car body • Perform functionality checks on rolling stock car body components and parts • Adhere to safety guidelines and operating instructions for tools and equipment during maintenance work • Record rolling stock car body maintenance activities and report occurrences of faults identified 	<ul style="list-style-type: none"> • Interpret work orders and prepare for corrective maintenance • Apply fault identification procedures to determine causes faults in rolling stock car body components and parts • Dismantle rolling stock car body components for corrective maintenance • Carry out rectification, repair and/or replacement of faulty components • Reassemble and reinstate rolling stock car body • Perform functional tests on rolling stock car body and components • Adhere to safety procedures when performing maintenance work • Record and collate documentation of rolling 	<ul style="list-style-type: none"> • Use troubleshooting tools, equipment and methods to locate and analyse causes of faults on rolling stock car body component and parts • Recommend corrective actions for identified faults on rolling stock car body components and parts • Implement procedures on safe usage of tools and equipment during maintenance work • Analyse maintenance work documented for rolling stock car body to identify possible workflow improvements so as to prevent fault recurrence 	<ul style="list-style-type: none"> • Establish structured failure investigation and specify functional testing requirements • Apply failure investigation methods to diagnose root cause failure of rolling stock car body and components • Review organisational rolling stock car body maintenance procedures • Propose new and/or enhanced maintenance procedures and/or WI in reference to OEM recommendations • Monitor overall maintenance progress of rolling stock car body to ascertain effectiveness of maintenance procedures • Develop solutions by analysing diagnostic data to prevent faults and failures recurrence 		

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		stock car body maintenance work		<ul style="list-style-type: none"> • Develop troubleshooting, rectification and fault analysis methods • Develop test procedures for system performance checks • Coordinate rolling stock car body maintenance with other RTS maintenance needs 		
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