

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

TSC Category	Rail Systems Maintenance					
TSC	Engineering Train and Rolling Stock Operation					
TSC Description	Operate engineering train, rolling stock and on-board equipment to support maintenance operations					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		PTP-RSM-2010-1.1	PTP-RSM-3010-1.1			
		Drive engineering train and/or rolling stock to support maintenance operations	Operate engineering train and/or rolling stock on-board equipment to support maintenance operations			
Knowledge		<ul style="list-style-type: none"> Types of signals and markers in the rail environment Indicators, alarms and its interpretation Signal Passed At Danger (SPAD) Types and function of engineering train and/or rolling stock Operating procedures for surface and underground operations for engineering train and/or rolling stock Standard Operation Procedures (SOP) for obtaining track access Communication procedures with depot controller and Operations Control Centre (OCC) Protocol for radio communication Train stabling procedures at depot Pre-operation and post-operation checks procedures Types of common engineering train and/or rolling stock faults 	<ul style="list-style-type: none"> Types of on-board equipment mounted on engineering train and/or rolling stock Functions, concepts and operation procedures of engineering train and/or rolling stock on-board equipment Standard Operation Procedures (SOPs) for obtaining track access Types of common engineering train and/or rolling stock on board equipment operational faults Pre-operation and post-operation checks procedures Train shunting procedures Types and usage of Personal Protective Equipment (PPE) Organisational maintenance documentation and fault reporting procedures 			

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		<ul style="list-style-type: none"> • Types and usage of Personal Protective Equipment (PPE) • Organisational maintenance documentation and fault reporting procedures 				
Abilities		<ul style="list-style-type: none"> • Interpret work orders and launch engineering train and/or rolling stock according to maintenance schedule • Carry out operational checks on engineering train and/or rolling stock before and after maintenance work • Drive engineering train and/or rolling stock based on maintenance needs in accordance with organisational and regulatory requirements • Support on-board equipment operations and maintenance work • Interpret types of signals and markers to respond to signals and trackside signs • Apply radio communication protocol to report operational and situation updates • Report engineering train and/or rolling stock operation status, defect and abnormal situations to depot controller and OCC • Perform stabling of engineering train and/or rolling stock in the 	<ul style="list-style-type: none"> • Interpret work orders and launch engineering train and/or rolling stock according to maintenance schedule • Carry out operational checks on engineering train and/or rolling stock on-board equipment before and after maintenance work • Follow operating procedures to operate on-board equipment • Identify operator-level rectification of faulty engineering train and/or rolling stock on board equipment • Perform train shunting • Adhere to safety guidelines and operating instructions of on-board equipment during maintenance work • Document engineering train and/or rolling stock on-board equipment operation log and report occurrences of faults identified 			

		respective depot after maintenance work				
		<ul style="list-style-type: none">• Document engineering train and/or rolling stock operation log				