

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

<b>TSC Category</b>	Rail Operations					
<b>TSC</b>	Track Access Management					
<b>TSC Description</b>	Monitor and facilitate track access with relevant security and protection measures at appropriate zones in accordance to organisational and regulatory requirements					
<b>TSC Proficiency Description</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
	<b>PTP-ROP-1004-1.1</b>	<b>PTP-ROP-2004-1.1</b>	<b>PTP-ROP-3004-1.1</b>	<b>PTP-ROP-4004-1.1</b>	<b>PTP-ROP-5004-1.1</b>	<b>PTP-ROP-6004-1.1</b>
	Carry out track access duties with relevant security and protection measures	Facilitate track access with relevant security and protection measures	Implement and monitor track access activities in accordance with track access schedules and procedures	Review track access schedules and ad-hoc requests to determine track access priorities	Formulate and optimise track access plans and track access rules and procedures	Formulate strategies for safe and efficient track access management
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>Responsibilities of track access security and protection officer-in-charge</li> <li>Definitions of terminologies related to track access</li> <li>Rules and procedures of track access security and protection measures</li> <li>Security and protection equipment maintenance logs</li> <li>Operating methods and techniques of track access security and protection equipment</li> <li>Track clearance procedures for safe train passage</li> <li>Railway track areas</li> <li>Track access rules and procedures</li> <li>Common hazards and risks in track access activities</li> <li>Classification of tracks</li> </ul>	<ul style="list-style-type: none"> <li>Rules and procedures of track access security and protection measures</li> <li>Types and characteristics of track access security and protection methods</li> <li>Concept of selection methods on track access security and protection methods</li> <li>Maintenance of security and protection equipment</li> <li>Track access restrictions</li> <li>Types of hand-signal tools</li> </ul>	<ul style="list-style-type: none"> <li>Criteria for prioritising track access</li> <li>Track access recording methods</li> <li>Maintenance schedule for security and protection equipment</li> </ul>	<ul style="list-style-type: none"> <li>Criteria for prioritising track access</li> <li>Appropriate timings to switch traction power for train lines and/or depots</li> <li>Track access scheduling systems</li> <li>Types, functions, usage and procedures to apply track security and protection equipment</li> </ul>	<ul style="list-style-type: none"> <li>Rules and procedures governing track access and procession</li> <li>Track access scheduling optimisation modelling</li> <li>Principle requirements for effective prioritisation, planning and managing of track access</li> </ul>	<ul style="list-style-type: none"> <li>Track access modelling and optimisation methods and tools</li> <li>Track access operating model management</li> <li>International track access standards</li> <li>Overall train operations procedures</li> <li>Signalling procedures</li> </ul>
<b>Abilities</b>	<ul style="list-style-type: none"> <li>Assist in preparing track access security and protection measures</li> </ul>	<ul style="list-style-type: none"> <li>Apply knowledge of different types of track access in preparing track</li> </ul>	<ul style="list-style-type: none"> <li>Implement track access process in accordance with scheduled zonal</li> </ul>	<ul style="list-style-type: none"> <li>Review conflicts in track access requests to prioritise track access schedule</li> </ul>	<ul style="list-style-type: none"> <li>Formulate optimisation plans to increase effectiveness of track access scheduling</li> </ul>	<ul style="list-style-type: none"> <li>Synergise strategies for safe track access management</li> </ul>

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	<ul style="list-style-type: none"> <li>• Check for safety of designated areas when providing track access</li> <li>• Assist in implementing rules and procedures of track access security and protection measures</li> <li>• Report the completion of track access security and protection measures</li> <li>• Clear tracks for safe train passage after completion of track access</li> </ul>	<p>access security and protection measures</p> <ul style="list-style-type: none"> <li>• Support the rules and procedures of track access security and protection measures</li> <li>• Interpret track access schedule to identify potential conflicts in track access requests</li> <li>• Apply hand signals according to organisational operating procedures</li> </ul>	<p>allocation, security and protection measures</p> <ul style="list-style-type: none"> <li>• Verify the completion of track access security and protection measures</li> <li>• Monitor track access activities including equipment and personnel movement</li> <li>• Document track access activities</li> <li>• Coordinate emergency track access</li> <li>• Implement traction power protection procedures according to organisational operating procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Assess track access requirement by different stakeholders</li> <li>• Monitor the adherence of track access security and protection procedures</li> <li>• Facilitate the switching of traction power for main lines and/or depots</li> </ul>	<ul style="list-style-type: none"> <li>• Guide implementation of rules and procedures governing track access</li> <li>• Develop prioritisation criteria for conflicted track access request and requirement</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark the efficiency of track access activities against international standards</li> <li>• Influence rules and procedures of track access security and protection measures</li> <li>• Evaluate and approve track access requests that impact train service</li> </ul>
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