

<b>TSC Category</b>	Rail Systems Maintenance					
<b>TSC</b>	Heavy Lifting Machinery Operation					
<b>TSC Description</b>	Operate heavy lifting machinery and the appropriate deployment of machinery for maintenance activities					
<b>TSC 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-RSM-1014-1.1</b>	<b>PTP-RSM-2014-1.1</b>				
	Operate various types of heavy lifting machinery required for rail maintenance activities	Support the deployment and usage of heavy lifting machinery				
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>• Types of heavy lifting machinery used in rail maintenance activities</li> <li>• Operating principles and functions of heavy lifting machinery</li> <li>• Techniques used to position, stabilise and release load</li> <li>• Conditions which may impact structural and load stability when operating heavy lifting machinery</li> <li>• Procedures on handling unanticipated situations during machinery operation</li> <li>• Safety tools and equipment used at work site while operating heavy lifting machinery</li> <li>• Safety procedures in operating heavy lifting machinery</li> </ul>	<ul style="list-style-type: none"> <li>• Job plan designs</li> <li>• Types of heavy lifting machinery used in rail maintenance activities</li> <li>• Operating principles and functions of heavy lifting machinery</li> <li>• Calculations of payload safety factor for the appropriate deployment of heavy lifting machinery</li> <li>• Types of maintenance activities that required heavy lifting machinery</li> <li>• Types of hazards and dangers at work site</li> <li>• Safe work site planning</li> <li>• Safety tools and equipment used at work site while operating heavy lifting machinery</li> <li>• Safety procedures in operating heavy lifting machinery</li> </ul>				
<b>Abilities</b>	<ul style="list-style-type: none"> <li>• Operate heavy lifting machinery in accordance to job assignment requirements and safety protocols</li> <li>• Handle heavy lifting machinery in confined spaces</li> </ul>	<ul style="list-style-type: none"> <li>• Interpret job plan and amount of resources required for rail maintenance activities</li> <li>• Allocate the appropriate heavy lifting machinery to the appropriate payload required by the maintenance activities</li> </ul>				

	<ul style="list-style-type: none"> <li>• Use appropriate techniques to safely hoist, stabilise and release load when operating heavy lifting machinery</li> <li>• Identify conditions which may impact structural and load stability during rail maintenance activities</li> <li>• Respond to site incidents by shutting down heavy lifting machinery with the correct sequence of procedures</li> <li>• Adhere to safety procedures when operating heavy lifting machinery</li> </ul>	<ul style="list-style-type: none"> <li>• Conform to appropriate usage of the heavy lifting machinery at the worksite</li> <li>• Ensure the safe deployment of heavy lifting machinery at the worksite</li> </ul>				
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