

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

<b>TSC Category</b>	Cargo Operations					
<b>TSC</b>	Mobile Equipment - Heavy Duty Prime Mover and Trailer Operations					
<b>TSC Description</b>	Support loading and unloading of cargo at wharves and yards through the use of heavy duty prime movers and trailers					
<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>STP-CGO-1006-1.1</b>	<b>STP-CGO-2006-1.1</b>	<b>STP-CGO-3006-1.1</b>			
	Operate a hauler prime mover to transport cargo within the wharves and yards	Operate heavy duty prime movers and double stack trailers in various environmental conditions	Operate inter-gateway haulage by prime movers and trailers for container operations in various environmental conditions			
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>Layouts of terminals and the ICA/customs checkpoints at container terminals</li> <li>Types of containers and container handling equipment</li> <li>Driving rules and safety regulations in container terminals or ports, including: <ul style="list-style-type: none"> <li>Road signs and road markings in the port</li> <li>Turning procedures for the haulier prime mover</li> <li>Safety measures at traffic junction – T-junctions, uncontrolled cross junctions and traffic light controlled junctions</li> <li>Procedures when entering the container terminals' IN-gates and OUT-gates</li> <li>Procedures when leaving container</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Types of heavy duty prime movers and double stack trailers and their load capacities</li> <li>Workplace Safety and Health (WSH) regulations and practices relating to heavy duty prime mover and double stack trailer operations</li> <li>Main parts of heavy duty prime movers and double stack trailers</li> <li>Safety measures when inspecting heavy duty prime movers and double stack trailers</li> <li>Safe driving rules and procedures in a container terminal</li> <li>Mounting and offloading procedures on the wharf and yard</li> <li>Radio communication procedures</li> <li>Prime mover computer systems</li> <li>Parking procedures for heavy duty prime</li> </ul>	<ul style="list-style-type: none"> <li>Main parts and characteristics of inter-gateway haulage prime movers</li> <li>Workplace Safety and Health (WSH) practices relating to inter-gateway haulage operations</li> <li>Safety measures when conducting pre-operations checks on inter-gateway haulage prime movers</li> <li>Differences in driving rules and procedures in the public roads and container terminals</li> <li>Mounting and offloading procedures on wharves and yards</li> <li>Procedures for entering or exiting container terminals' IN-gates and OUT-Gates</li> <li>Proper procedures and contingencies for breakdowns and accidents</li> </ul>			

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	<ul style="list-style-type: none"> <li>terminal with empty containers and/or empty trailers</li> <li>Safety measures in operation areas – wharf and yard</li> <li>Emergency response procedures</li> <li>Flow-Through-Gate operations</li> <li>Mounting and offloading procedures on the wharf and in the container stacking yard</li> <li>Ship-side loading and unloading operations</li> <li>Handling exceptions</li> <li>Procedures for scanning of cargo at the scanning stations and transporting containers through ICA/custom checkpoints</li> </ul>	<ul style="list-style-type: none"> <li>movers and double stack trailers</li> <li>Hand-over procedures for heavy duty prime movers and double stack trailers</li> </ul>	<ul style="list-style-type: none"> <li>Procedures for parking inter-gateway haulage prime movers</li> <li>Hand-over procedures for inter-gateway haulage prime movers</li> </ul>			
<p><b>Abilities</b></p>	<ul style="list-style-type: none"> <li>Determine the layout and types of container handling equipment in container terminals</li> <li>Apply safety rules when driving in container terminals</li> <li>Apply procedures for leaving container terminals with empty containers and/or empty trailers</li> <li>Apply procedures for mounting and off-loading containers from and onto trailers at the wharf and in the container yard</li> <li>Perform operations at ICA and Customs checkpoints and scanning stations</li> </ul>	<ul style="list-style-type: none"> <li>Apply relevant WSH procedures, including personal protective equipment (PPE), when preparing to operate heavy duty prime movers and double stack trailers</li> <li>Apply WSH requirements to inspect heavy duty prime movers and double stack trailers before operations <ul style="list-style-type: none"> <li>Check exterior of machine and cabin</li> <li>Check condition and functionality of instrument panel</li> <li>Check engine oil and other fluids</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Apply WSH procedures when operating inter-gateway haulage prime movers</li> <li>Identify environments and safe routes to be taken for inter-gateway haulage operations</li> <li>Carry out operational test of inter-gateway haulage by prime movers and trailers</li> <li>Report faults observed before and during operations</li> <li>Transport containers from one container terminal to another container terminal via public road including the entry and exit of</li> </ul>			

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		<ul style="list-style-type: none"> <li>○ Carry out operational tests</li> <li>○ Report observed faults</li> <li>● Identify environment and safe routes to be taken for heavy duty prime mover and double stack trailer operations</li> <li>● Drive heavy duty prime movers and double stack trailers to transport cargo containers</li> <li>● Mount and offload containers from and to heavy duty prime movers and double stack trailers in the yard and the wharf</li> <li>● Perform radio communications for heavy duty prime movers and double stack trailers operations in accordance to organisational procedures</li> <li>● Interpret the instructions displayed on prime mover computer systems</li> <li>● Park heavy duty prime movers and double stack trailers at designated areas after operations</li> <li>● Conduct equipment hand-over in accordance with organisational procedures</li> </ul>	<p>terminals' IN-gates and OUT-Gates</p> <ul style="list-style-type: none"> <li>● Mount and offload containers from and to inter-gateway haulage prime movers</li> <li>● Interpret the instructions displayed on prime mover computer system</li> <li>● Park inter-gateway haulage prime movers at designated areas and conduct proper hand-over</li> </ul>			
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