

**SKILLS FRAMEWORK FOR ENVIRONMENTAL SERVICES  
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

<b>TSC Category</b>	Transportation Management					
<b>TSC</b>	Transport Route and Schedule Planning					
<b>TSC Description</b>	Optimise transportation resources for route scheduling and dispatching for waste collection and/or cleaning					
<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>EVS-TPM-2002-1.1</b>	<b>EVS-TPM-3002-1.1</b>	<b>EVS-TPM-4002-1.1</b>		
		Coordinate vehicle routing and scheduling	Supervise vehicle routing and scheduling	Evaluate and establish routes and schedules for optimal vehicle routing and scheduling		
<b>Knowledge</b>		<ul style="list-style-type: none"> <li>Transportation operations procedure</li> <li>Transportation scheduling tools</li> <li>Types of traffic conditions and patterns</li> <li>Different planning considerations for each transportation type</li> <li>Road safety</li> <li>Relevant stakeholders</li> <li>Components of route sheet for collection and/or cleaning</li> <li>Factors and situations affecting assigned routes</li> <li>Purpose of rerouting exercise</li> </ul>	<ul style="list-style-type: none"> <li>Route and cost optimisation modelling</li> <li>Procedures on vehicle routing and transport operator schedule</li> <li>Concept of trade-offs in transportation costing</li> <li>Concept of selection methods on transport services</li> <li>Road safety</li> <li>Purpose of rerouting exercise</li> <li>Factors and situations affecting assigned routes</li> </ul>	<ul style="list-style-type: none"> <li>Route and cost optimisation framework</li> <li>Market trends in vehicle fleet management</li> <li>Technologies in distribution planning</li> <li>Vehicle tracking technologies</li> <li>Route planning technologies</li> <li>Road safety</li> </ul>		
<b>Abilities</b>		<ul style="list-style-type: none"> <li>Interpret transportation schedules according to organisational requirements</li> <li>Compute the payload being collected along the route</li> <li>Assign the appropriate waste collection vehicle to be used according to the route and schedule</li> <li>Communicate with relevant stakeholders</li> <li>Coordinate pick up operations scheduling</li> <li>Interpret route for collection and/or</li> </ul>	<ul style="list-style-type: none"> <li>Facilitate day-to-day transportation routing and scheduling according to organisational procedures and requirements</li> <li>Recommend the resources required for transport operations</li> <li>Review emerging situations and factors that will affect indirect collection and its implications</li> </ul>	<ul style="list-style-type: none"> <li>Review effectiveness of vehicle fleet routes and schedules based on transportation operations strategy and business requirements</li> <li>Evaluate the resources required for transport operations</li> <li>Develop optimisation plans to increase effectiveness of vehicle fleet routing and scheduling based on latest vehicle tracking and route planning technologies</li> </ul>		

**SKILLS FRAMEWORK FOR ENVIRONMENTAL SERVICES  
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

		<p>cleaning with relevant documentations</p> <ul style="list-style-type: none"> <li>• Identify emerging situations and factors that will affect indirect collection and its implications</li> <li>• Coordinate the special equipment required for collection and/or cleaning</li> </ul>	<ul style="list-style-type: none"> <li>• Organise transportation operation schedules effectively</li> <li>• Facilitate in the review of emerging situations and factors affecting route planning</li> <li>• Participate in making adjustments to route planning</li> <li>• Amend route sheets accordingly to reflect the adjustments made</li> </ul>	<ul style="list-style-type: none"> <li>• Review the risk impact of selected routes and schedules based on organisational procedures</li> </ul>		
--	--	---	--	--	--	--