

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

<b>TSC Category</b>	Ground Handling Services and Operations					
<b>TSC</b>	Ground Support Equipment Maintenance					
<b>TSC Description</b>	Manage Ground Support Equipment (GSE) serviceability and availability to meet operational requirements for ground handling services and operations					
<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>ATP-GSO-2012-1.1</b>	<b>ATP-GSO-3012-1.1</b>	<b>ATP-GSO-4012-1.1</b>	<b>ATP-GSO-5012-1.1</b>	
		Interpret possible malfunctions of Ground Support Equipment (GSE) and take measures to recover GSE	Implement Ground Support Equipment (GSE) maintenance operations and recover GSE performance	Develop Ground Support Equipment (GSE) maintenance and recovery plans to assure optimum GSE efficiencies	Formulate strategies to elevate ground handling services and operations by analysing Ground Support Equipment (GSE) performance	
<b>Knowledge</b>		<ul style="list-style-type: none"> <li>• GSE purposes, functionalities, operating principles and safety requirements</li> <li>• GSE testing procedures</li> <li>• Principles of maintenance</li> <li>• Safety requirements during GSE testing and maintenance</li> <li>• Types and uses of maintenance tools for GSE repairs</li> <li>• Organisation's operating manuals</li> <li>• Organisation's ground operations safety manuals</li> </ul>	<ul style="list-style-type: none"> <li>• GSE purposes, functionalities, operating principles and safety requirements</li> <li>• GSE parts and supplies sourcing</li> <li>• GSE maintenance procedures</li> <li>• GSE troubleshooting procedures</li> <li>• Organisation's operating manuals</li> <li>• Types and uses of maintenance tools for GSE repairs</li> <li>• Performance parameters of GSE</li> <li>• Local and international guidelines such as International Air Transport Association (IATA) Ground Operations Manual (IGOM)</li> </ul>	<ul style="list-style-type: none"> <li>• GSE purposes, functionalities, operating principles and safety requirements</li> <li>• Concept and application of major maintenance on GSE</li> <li>• Concept of maintenance plan development and management</li> <li>• GSE maintenance service providers</li> <li>• Performance parameters of GSE</li> <li>• GSE wirings, technical diagrams and schematics</li> <li>• Specifications of GSE Original Equipment Manufacturers (OEMs)</li> <li>• Organisation's operating manuals</li> <li>• Local and international guidelines such as International Air Transport Association (IATA) Ground</li> </ul>	<ul style="list-style-type: none"> <li>• GSE purposes, functionalities, operating principles and safety requirements</li> <li>• Solutions to enhance ground handling services and operations</li> <li>• Performance parameters of GSE</li> <li>• New GSE to be implemented in the aviation industry</li> <li>• Statistical analysis</li> <li>• Organisation's operating manuals</li> <li>• Local and international guidelines such as International Air Transport Association (IATA) Ground Operations Manual (IGOM)</li> </ul>	

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				Operations Manual (IGOM)		
<b>Abilities</b>		<ul style="list-style-type: none"> <li>• Perform operational preventive maintenance tasks on GSE</li> <li>• Apply appropriate techniques to determine causes of malfunctions</li> <li>• Rectify malfunctioning GSE using correct techniques, procedures, tools and equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Verify causes of GSE malfunctions</li> <li>• Troubleshoot abnormalities detected in GSE</li> <li>• Coordinate with GSE Original Equipment Manufacturer's (OEM) technical advisors and other relevant stakeholders to resolve maintenance issues</li> <li>• Order and maintain inventories of parts and supplies</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect GSE to ensure conformance to performance and safety standards</li> <li>• Evaluate GSE performance parameters against specifications of Original Equipment Manufacturers (OEMs)</li> <li>• Define project scope of work and the number of hours for repairs</li> <li>• Assess contractors' capabilities to perform maintenance works on GSE</li> <li>• Develop maintenance and recovery plans and timelines</li> <li>• Allocate maintenance tasks and duties to internal team members and contractors</li> <li>• Examine the quality and efficiency of repairs carried out on GSE</li> </ul>	<ul style="list-style-type: none"> <li>• Appraise the quality of maintenance works done by service providers</li> <li>• Direct follow-up actions including upgrades and acquisitions of new GSE and disposal of Beyond Economical Repair (BER) or obsolete GSE</li> <li>• Analyse GSE fleet operational performance to determine optimal deployment of GSE for ground handling services and operations</li> <li>• Impart technical advice to augment performance of GSE</li> </ul>	