

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

TSC Category	Ground Handling Services and Operations					
TSC	Ground Support Equipment Operations					
TSC Description	Operate Ground Support Equipment (GSE) to provide ramp/technical ramp services to turn around aircraft according to flight schedules					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	ATP-GSO-1013-1.1	ATP-GSO-2013-1.1	ATP-GSO-3013-1.1	ATP-GSO-4013-1.1		
	Operate Ground Support Equipment (GSE) according to their uses and specifications	Monitor the use of Ground Support Equipment (GSE) and execute operations to ensure safe and optimal functioning of GSE	Implement Ground Support Equipment (GSE) operations to ensure optimal ground handling services and operations	Manage Ground Support Equipment (GSE) operations and enhance ground handling services and operations		
Knowledge	<ul style="list-style-type: none"> Differences between ramp and technical ramp operations Types of GSE available for ramp/technical ramp operations Usage of GSE for ground handling services and operations Procedures for starting up and shutting down of GSE Safety precautions when operating GSE Usage of Autonomous Guided Vehicles/Autonomous Vehicles for ground handling services and operations Emergency and recovery procedures for operating GSE Changi airside roadway systems 	<ul style="list-style-type: none"> Types, usage and operational parameters of GSE Ground handling needs for different types of aircraft Safety standards for operating different GSE Usage of Autonomous Guided Vehicles/Autonomous Vehicles for ground handling services and operations Emergency and recovery procedures for operating GSE Changi airside roadway systems Local and international guidelines such as International Air Transport Association (IATA) Ground Operations Manual (IGOM) 	<ul style="list-style-type: none"> Types, usage and performance parameters of GSE Technical information underpinning the functionalities of GSE Service Level Agreements (SLAs) put in place Usage of Autonomous Guided Vehicles/Autonomous Vehicles for ground handling services and operations Emergency and recovery procedures for operating GSE Changi airside roadway systems Local and international guidelines such as International Air Transport Association (IATA) Ground Operations Manual (IGOM) 	<ul style="list-style-type: none"> Types, usage and performance parameters of GSE Solutions to rectify aircraft turnaround issues Performance parameters of new GSE in the aviation industry Development of business cases for new GSE Usage of Autonomous Guided Vehicles/Autonomous Vehicles for ground handling services and operations Emergency and recovery procedures for operating GSE Changi airside roadway systems Local and international guidelines such as International Air Transport Association (IATA) Ground Operations Manual (IGOM) 		

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Abilities	<ul style="list-style-type: none"> • Identify the different types of GSE used in ground handling services and operations • Apply safety precautionary measures when operating GSE • Prepare and set up GSE for ground handling services and operations • Operate GSE according to airline service requirements to support ground handling services and operations • Shut down GSE after ground handling services and operations 	<ul style="list-style-type: none"> • Conduct safety checks on GSE • Plan and monitor the use of GSE for ground handling services and operations • Identify and report malfunctioning GSE to supervisors 	<ul style="list-style-type: none"> • Determine GSE to be deployed according to SLAs with airlines • Verify GSE performance against performance parameters • Troubleshoot and resolve any GSE abnormalities detected 	<ul style="list-style-type: none"> • Analyse GSE performance according to their intended uses • Propose strategies to improve ground handling services and operations through implementation of new GSE • Recommend new GSE to be used for ground handling services and operations • Determine cost impact of implementing new GSE • Develop Standard Operating Procedures (SOPs) for the use and operation of new GSE 		
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