

SKILLS FRAMEWORK FOR AEROSPACE																																																								
SKILLS MAP - Senior Technical Service Engineer (Fleet Management)																																																								
Sector	Aerospace																																																							
Track	Fleet Management																																																							
Occupation	Engineer																																																							
Job Role	Senior Technical Service Engineer (Fleet Management)																																																							
Job Role Description	<p>The Senior Technical Service Engineer (Fleet Management) is accountable for technical services and engineering problem-resolution on all technical matters. He/She provides technical expertise in the areas of structural, avionics, powerplant, system, interiors and defect analysis. He is responsible for recommending solutions to technical engineering issues and optimising engineering evaluations or recommendation as appropriate. He collaborates with various internal and external stakeholders for technical advice and resolution as needed. He works closely with the in-house customer support personnel and customers on all engineering matters. Utilising aircraft monitoring systems and platforms available, he refines predictive and preventive maintenance execution actions to avoid unscheduled events and enable fast Aircraft-On-Ground recovery.</p> <p>He supports the development of aircraft lifecycle management programmes and aircraft modifications and redeployment for asset management. He reviews compliance with airworthiness and legislative requirements, while proposing enhancements to the organisation's standard operating procedures (SOPs), and safety, health and quality systems. As a team leader, he appraises staff performance and conducts coaching and mentoring for technical personnel.</p> <p>He works in an office environment and provides troubleshooting assistance on site when necessary. He should possess an enquiring and analytical mind and have a knack for investigating issues, analysing multifaceted engineering problems and developing optimal solutions.</p>																																																							
Critical Work Functions and Key Tasks / Performance Expectations	Critical Work Functions	Key Tasks	Performance Expectations (For legislated / regulated occupations)*																																																					
	Manage aircraft fleet services	Support development of aircraft lifecycle management programmes	In accordance with: <ul style="list-style-type: none"> International Civil Aviation Organisation (ICAO) legislation Air Navigation Order (ANO) Singapore Airworthiness Requirements (SAR) Relevant foreign aviation legislations Workplace Safety and Health (WSH) Act Environmental standards Aerospace quality management system standards ISO, AN, MS, NAS and MIL standards Air Transport Association of America (ATA) standards Special process standards *Performance Expectations are non-exhaustive and subject to prevailing regulations																																																					
		Lead aircraft, engine and parts modifications and redeployment for asset management																																																						
		Lead technical and programme reviews with customers and suppliers																																																						
	Coordinate aircraft, engine and component maintenance	Ensure alignment of maintenance plans with original equipment manufacturer (OEM) and customer requirements																																																						
		Verify results of post-maintenance inspections and functional checks for conformance to technical specifications and airworthiness directives																																																						
		Optimise engineering solutions using advanced problem solving techniques																																																						
	Conform to management system requirements	Review documentation for compliance with regulatory and organisational requirements																																																						
		Propose enhancements to standard operating procedures (SOPs) for fleet management operations																																																						
		Review compliance with legislative requirements and airworthiness standards																																																						
		Recommend improvements to environment, safety and health systems, policies and procedures																																																						
		Contribute to the development of organisational quality and risk management systems																																																						
	Contribute to continuous improvement	Contribute to the development of sustainability practices for fleet management																																																						
		Evaluate opportunities for continuous improvement projects																																																						
		Contribute to the development of lean practices for fleet management																																																						
		Conduct research on market trends and technology applications to drive innovation																																																						
	Manage people and organisational development	Leverage data analytics to enhance operational and business decision-making																																																						
		Liaise with other teams and customers to ensure smooth operations																																																						
		Appraise staff performance by utilising organisational performance management systems																																																						
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Skills & Competencies	Continuous Process Improvement	Level 3		
	Digital Techniques Application	Level 4		
	Electrical Fundamentals Application	Level 4		
	Electronic Fundamentals Application	Level 4		
	Engineering Drawing Interpretation and Management	Level 4		
	Engineering Problem Solving	Level 4		
	Gas Turbine Engine Principles Application	Level 4		
	Green Manufacturing Design and Implementation	Level 3		
	Helicopter Aerodynamics, Structures and Systems Principles Application	Level 4		
	Human Factors Application and Error Management	Level 3		
	Innovation Management	Level 3		
	Internet of Things Implementation	Level 3		
	Knowledge Management	Level 3		
	Lean Manufacturing	Level 3		
	Maintenance Coordination	Level 4		
	Mathematical Concepts Application	Level 3		
	Physics Concepts Application	Level 3		
	Piston Aeroplane Aerodynamics, Structures and Systems Principles Application	Level 4		
	Piston Engine Principles Application	Level 4		
	Predictive Maintenance	Level 4		
	Project Management	Level 3		
	Propeller Principles Application	Level 4		
	Propulsion Principles Application	Level 4		
	Quality System Management	Level 3		
	Robotics and Automation Application	Level 3		
	Stakeholder Management	Level 3		
Turbine Aeroplane Aerodynamics, Structures and Systems Principles Application	Level 4			
Workplace Safety and Health Framework Development and Implementation	Level 3			
Programme Listing	For a list of training programmes available for the Aerospace sector, please visit < https://www.skillsfuture.sg/skills-framework/aero >			

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