

SKILLS FRAMEWORK FOR AEROSPACE				
SKILLS MAP - Senior Manufacturing Planning Executive				
Sector	Aerospace			
Track	Manufacturing			
Occupation	Production Planning Engineer			
Job Role	Senior Manufacturing Planning Executive			
Job Role Description	<p>The Senior Manufacturing Planning Executive formulates production plans and organises materials, manpower and resources to accomplish manufacturing functions to fulfil customer and financial commitments. He/She validates the master production schedule (MPS) and drives adherence of manufacturing works to project schedules and goals in collaboration with cross-functional leads. He leads material requirements planning and programme reviews with relevant stakeholders. He is responsible for optimising supply chain and logistics planning, contract negotiations, vendor sourcing, inventory planning and control and warehousing operations to meet manufacturing requirements. He leverages data from supply chain management (SCM) systems to enhance decision-making and implements supplier capability development plans to enhance performance.</p> <p>He drives continuous improvements on product on-time delivery and total available man-hours, develops strategies and priorities for critical customer issues, facilitates problem-solving, leads in regular reviews with customers and suppliers, and establishes best practices on process improvements to enhance productivity. He proactively contributes to the development of lean and sustainability practices, and conducts research and digital innovation in targeted areas for continuous process improvements. As a team leader, he appraises staff performance and conducts coaching and mentoring for planning personnel.</p>			
Critical Work Functions and Key Tasks / Performance Expectations	Critical Work Functions	Key Tasks	Performance Expectations (For legislated / regulated occupations)*	
	Manage manufacturing and production planning	Formulate production plans to fulfil customer requirements and organisation's financial commitments	<ul style="list-style-type: none"> <li>• International Civil Aviation Organisation (ICAO) legislation</li> <li>• Air Navigation Order (ANO)</li> <li>• Singapore Airworthiness Requirements (SAR)</li> <li>• Relevant foreign aviation legislations</li> <li>• Workplace Safety and Health (WSH) Act</li> <li>• Environmental standards</li> <li>• Aerospace quality management system standards</li> </ul> <p>*Performance Expectations are non-exhaustive and subject to prevailing regulations</p>	
		Validate the master production schedule (MPS) based on sales plan, sales orders and production capacity		
		Evaluate production process enhancements to improve cost efficiency, yield, quality and cycle times		
		Review adherence of manufacturing works to project timelines and schedules		
		Lead regular programme reviews with customers and suppliers		
	Manage supply chain and logistics	Lead vendor sourcing and contract negotiations		
		Lead material requirements planning in consultation with customers, workshops and production departments		
		Optimise inventory planning and control as per organisational and regulatory requirements		
		Leverage data from supply chain management (SCM) systems to enhance decision-making		
		Implement supplier capability development plans to enhance performance		
	Conform to management system requirements	Propose enhancements to standard operating procedures (SOPs) for manufacturing planning 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 manufacturing		
		Evaluate opportunities for continuous improvement projects		
		Contribute to the development of lean practices for manufacturing		
		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				
Technical Skills and Competencies	Generic Skills and Competencies			
	Artificial Intelligence Application	Level 3	Sense-Making	Advanced
	Asset Management	Level 3	Decision Making	Intermediate
	Aviation Legislation Compliance	Level 3	Problem Solving	Intermediate
	Big Data Analytics	Level 3	Service Orientation	Intermediate
	Budgeting	Level 3	Resource Management	Intermediate
	Business Continuity Planning	Level 3		
	Business Negotiation	Level 4		
	Business Opportunities Development	Level 3		
	Business Performance Management	Level 3		
	Carbon Footprint Management	Level 4		
	Change Management	Level 3		

<b>Skills &amp; Competencies</b>	Condition-based Assets Monitoring Management	Level 4		
	Continuous Process Improvement	Level 3		
	Data Synthesis	Level 4		
	Enterprise Database System Administration	Level 3		
	Green Manufacturing Design and Implementation	Level 3		
	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		
	Mathematical Concepts Application	Level 3		
	Production Planning	Level 3		
	Project Management	Level 3		
	Quality System Management	Level 3		
	Robotics and Automation Application	Level 3		
	Stakeholder Management	Level 3		
	Supplier Management and Capability Development	Level 3		
	Supply Chain Solutioning	Level 3		
	Warehouse Inventory Control and Audit	Level 4		
Workplace Safety and Health Framework Development and Implementation	Level 3			
<b>Programme Listing</b>	For a list of training programmes available for the Aerospace sector, please visit < <a href="https://www.skillsfuture.sg/skills-framework/aero">https://www.skillsfuture.sg/skills-framework/aero</a> >			

THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED