

| SKILLS FRAMEWORK FOR AEROSPACE  |   |  |  |
|---|---|--|--|
| SKILLS MAP - Senior Operations Manager/Senior Production Manager/Senior Manufacturing Manager |   |  |  |
| Sector  | Aerospace   |  |  |
| Track   | Manufacturing   |  |  |
| Occupation  | Manufacturing Manager   |  |  |
| Job Role  | Senior Operations Manager/Senior Production Manager/Senior Manufacturing Manager  |  |  |
| Job Role Description  | <p>The Senior Operations Manager/Senior Production Manager/Senior Manufacturing Manager oversees and manages all manufacturing, production and engineering operations in the organisation. He/she provides leadership for the organisation and works with cross-functional teams to identify, develop and oversee the implementation of new technologies and products. He approves production plans and establishes customer negotiation strategies.</p> <p>His responsibilities include developing functional plans in alignment with business strategies and goals, establishing operating budget and capital investment plans, and key performance indicators (KPIs) to meet business goals. He drives talent recruitment and management for the organisation. He promotes compliance with airworthiness and legislative requirements, while endorsing the organisation's standard operating procedures (SOPs), safety, health, risk and quality systems. He champions the concept of a lean enterprise and sustainability practices. He also strategises continuous improvement projects, data analytics and digital innovation initiatives to enhance business competitiveness.</p> <p>He is a key organisational expert who advises senior executive management and stakeholders on all strategic, engineering and operational matters. He must demonstrate</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  | Approve 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> <li>ISO, AN, MS, NAS and MIL standards</li> <li>Air Transport Association of America (ATA) standards</li> <li>Special process standards</li> </ul> <p>*Performance Expectations are non-exhaustive and subject to prevailing regulations</p> |
|   |   | Formulate production process enhancements to improve cost efficiency, yield, quality and cycle times |  |
|   |   | Establish preventive maintenance programmes  |  |
|   |   | Steer production operations in the organisation  |  |
|   | Conform to management system requirements   | Establish customer negotiation strategies  |  |
|   |   | Approve standard operating procedures (SOPs) for manufacturing operations                            |  |
|   |   | Drive compliance of maintenance operations with legislative requirements and airworthiness standards |  |
|   |   | Endorse environment, safety and health systems, policies and procedures                              |  |
|   | Contribute to continuous improvement  | Evaluate the effectiveness of organisational quality and risk management systems                     |  |
|   |   | Endorse sustainability practices for manufacturing   |  |
|   |   | Strategise continuous improvement projects to optimise business performance metrics                  |  |
|   |   | Champion the adoption of lean practices in the organisation  |  |
|   | Manage people and organisational development  | Endorse research and innovation programmes based on business priorities                              |  |
|   |   | Approve data analytics plans for strategic decision-making   |  |
| Develop functional plans in alignment with business strategies and goals                      |   |  |  |
| Establish operating budget and plans for manufacturing  |   |  |  |
| Establish business development plans, targets and measurements                                |   |  |  |
| Manage relationships with internal and external stakeholders to meet business objectives      |   |  |  |
| Establish key performance indicators (KPIs) to achieve business goals and objectives          |   |  |  |
| Drive talent recruitment, development and management to meet business needs                   |   |  |  |
| Technical Skills and Competencies   |   | Generic Skills and Competencies  |  |
| Additive Manufacturing  | Level 5   | Decision Making  | Advanced   |
| Applied Research and Development Management   | Level 5   | Leadership   | Advanced   |
| Artificial Intelligence Application   | Level 5   | Developing People  | Advanced   |
| Asset Management  | Level 5   | Transdisciplinary Thinking   | Advanced   |
| Audit and Review Management   | Level 5   | Resource Management  | Advanced   |
| Automation Process Control  | Level 6   |  |  |
| Aviation Legislation Compliance   | Level 5   |  |  |
| Big Data Analytics  | Level 5   |  |  |
| Budgeting   | Level 5   |  |  |
| Business Continuity Planning  | Level 5   |  |  |
| Business Negotiation  | Level 6   |  |  |
| Business Opportunities Development  | Level 5   |  |  |
| Business Performance Management   | Level 5   |  |  |

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| <b>Skills &amp; Competencies</b>                                     | Carbon Footprint Management  | Level 6 |  |  |
|  | Change Management  | Level 5 |  |  |
|  | Continuous Process Improvement   | Level 5 |  |  |
|  | Contract Development and Management  | Level 5 |  |  |
|  | Cyber Risk Management  | Level 5 |  |  |
|  | Data Synthesis   | Level 6 |  |  |
|  | Engineering Problem Solving  | Level 6 |  |  |
|  | Engineering Product Design Facilitation  | Level 6 |  |  |
|  | Enterprise Database System Administration  | Level 5 |  |  |
|  | Green Manufacturing Design and Implementation  | Level 5 |  |  |
|  | Human Factors Application and Error Management   | Level 3 |  |  |
|  | Innovation Management  | Level 5 |  |  |
|  | Internet of Things Implementation  | Level 5 |  |  |
|  | Knowledge Management   | Level 5 |  |  |
|  | Lean Manufacturing   | Level 5 |  |  |
|  | Manufacturing Process Management   | Level 6 |  |  |
|  | New Engine Build Process Application   | Level 4 |  |  |
|  | Production Line Set-up   | Level 6 |  |  |
|  | Production Planning  | Level 5 |  |  |
|  | Project Management   | Level 5 |  |  |
|  | Quality System Management  | Level 5 |  |  |
|  | Risk Compliance and Governance   | Level 5 |  |  |
|  | Robotics and Automation Application  | Level 5 |  |  |
|  | Stakeholder Management   | Level 5 |  |  |
|  | Strategy Planning  | Level 5 |  |  |
|  | Supplier Management and Capability Development   | Level 5 |  |  |
| Supply Chain Solutioning   | Level 5  |         |  |  |
| Workplace Safety and Health Framework Development and Implementation | Level 5  |         |  |  |
| <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> > |         |  |  |

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