

| SKILLS FRAMEWORK FOR PUBLIC TRANSPORT | | | | |
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| SKILLS MAP - CHIEF ENGINEER/SENIOR ENGINEERING MANAGER (ENGINEERING TRAIN) | | | | |
| Sector | Public Transport | | | |
| Track | Rail Engineering | | | |
| Sub-Track | Engineering Train | | | |
| Occupation | Rail Engineer | | | |
| Job Role | Chief Engineer/Senior Engineering Manager (Engineering Train) | | | |
| Job Role Description | <p>The Chief Engineer/Senior Engineering Manager (Engineering Train) leads and facilitates the implementation of Engineering Train (ET) maintenance regime within the organisation. He/She works closely with both internal and external stakeholders in implementing new initiatives and adopting technological developments in engineering trains. He demonstrates his technical expertise by providing advice to cross-disciplinary engineering studies as well as reviewing enhancement initiatives to justify the effectiveness of improvement programmes. His roles also include the establishment of competency and engineering standards to ensure staff are equipped with relevant skills.</p> <p>He works well in a collaborative environment and functions through his understanding of the operational activities, industry developments and regulatory requirements. He maintains a forward-thinking mindset and contributes strategically to meet the department's goals.</p> | | | |
| Critical Work Functions and Key Tasks | Critical Work Functions | Lead maintenance activities and operational requirements | Key Tasks | |
| | | | Facilitate the implementation of departmental and/or organisational maintenance regimes and best practices | |
| | | | Develop failure management and technical recovery procedures to expedite engineering train fault recovery processes | |
| | | | Approve appointment of vendors based on allocated financial limits | |
| | | | Operationalise new measures to mitigate workplace safety risks | |
| | Drive continuous improvement activities to enhance service reliability | Operationalise new measures in ensuring workplace adherence to the Rapid Transit System (RTS) Codes of Practice | | |
| | | Review effectiveness of enhanced maintenance regimes to improve the reliability and efficiency of engineering trains | | |
| | | Lead cross-disciplinary engineering studies to ensure alignment with business objectives | | |
| | Manage people and organisational function | Lead collaboration with internal and external stakeholders in the adoption of new technologies to enhance maintenance processes | | |
| | | Implement manpower planning strategy | | |
| | | Establish competency standards and engineering standards for staff development and up-skilling | | |
| | | Manage annual budget required by the department | | |
| | | | Manage department's performance in achieving Key Performance Indicators (KPIs) | |
| Skills & Competencies | Technical Skills & Competencies | | Generic Skills & Competencies (Top 5) | |
| | Asset Management | Level 6 | Resource Management | Advanced |
| | Budgeting | Level 4 | Decision Making | Advanced |
| | Business Continuity Management | Level 5 | Interpersonal Skills | Advanced |
| | Change Management | Level 5 | Leadership | Advanced |
| | Condition-based Assets Monitoring Management | Level 5 | Problem Solving | Advanced |
| | Continuous Improvement Management | Level 5 | | |
| | Data and Statistical Analytics | Level 5 | | |
| | Engineering Maintenance Management | Level 5 | | |
| | Innovation Management | Level 5 | | |
| | Internet of Things Application | Level 4 | | |
| | Maintenance Scheduling | Level 5 | | |
| | Manpower Planning and Deployment | Level 4 | | |
| | Organisational Planning and Target Setting | Level 4 | | |
| | People Development | Level 5 | | |
| | Project Management | Level 5 | | |
| | Rail Regulatory Compliance | Level 5 | | |
| | Robotics and Automation Application | Level 4 | | |
| | Staff Performance Management | Level 4 | | |
| | Stakeholder Management | Level 4 | | |

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| | Strategy Planning | Level 5 | |
| | Systems Engineering Thinking | Level 5 | |
| | Technology Application | Level 3 | |
| | Vendor Management | Level 4 | |
| | Workplace Facilities Safety Management | Level 4 | |
| | Workplace Safety and Health Culture Development | Level 5 | |
| | Workplace Safety and Health for Incident and Accident Investigation | Level 5 | |
| Programme Listing | For a list of Training Programmes available for the Public Transport sector, please visit: www.skillsfuture.sg/skills-framework/public-transport | | |

The information contained in this document serves as a guide.