<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Technology Management</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Enterprise Database System Administration</td>
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<tr>
<td>TSC Description</td>
<td>Manage database design, architecture, optimisation, deployment, troubleshooting as well as capacity planning, refinement of logical design, handling of back-up and recovery plans, in order to support business requirements</td>
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<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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<td>LOG-TEM-3004-1.1</td>
<td>LOG-TEM-4004-1.1</td>
<td>LOG-TEM-5004-1.1</td>
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<tr>
<td>Implement enterprise database systems</td>
<td>Review effectiveness of enterprise database system applications and develop enterprise database system optimisation plans</td>
<td>Formulate enterprise database system implementation procedures and standards to enhance logistics operation efficiency</td>
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**Knowledge**

- Design, configuration, maintenance and troubleshooting of enterprise database systems
- Principles of process modelling, workflow, document flow and information flow
- Assessment of enterprise database system performance measurements and improvements
- Process integration in Enterprise Resource Planning (ERP) systems
- Risk assessment methods and procedures in relation to database management
- Information security management methods and procedures
- Emerging technologies, standards and trends in Enterprise Database System for logistics operations management
- Risk management strategies in relation to database management
- Information security management strategies for database management
| Abilities                                                                 | • Implement data loading, security, performance monitoring and tuning, capacity planning, backup and recovery  
                             | • Maintain availability and performance of all hosted enterprise databases and ensure secure services with no unplanned downtime  
                             | • Implement performance diagnostics and troubleshooting at scale in live environment  
                             | • Analyse processing issues and data anomalies and identifying solutions  
                             | • Implementation of database changes  
                             | • Implement risk management measures for business continuity and disaster recovery | • Develop security monitoring and incident reporting requirements for enterprise database system operations in accordance to organisation’s information security frameworks  
                             | • Review security monitoring reports according to database operational procedures  
                             | • Review performance diagnostics and troubleshooting reports to improve data management operations  
                             | • Develop reactive solutions to handle high loads and avoid resource starvation  
                             | • Facilitate optimisation plans to increase flexibility in database capacity  
                             | • Develop risk management measures for business continuity and disaster recovery  
                             | • Facilitate standard control procedures according to database management business continuity plans and disaster recovery plans | • Drive and evaluate emerging trends of enterprise database management in logistics industry  
                             | • Formulate and evaluate current and future database capacity requirements  
                             | • Formulate database system implementation procedures and standards to enhance logistics operation efficiency  
                             | • Formulate information security guidelines based on organisation’s information security frameworks  
                             | • Formulate business continuity plans and disaster recovery plans  
                             | • Formulate processes for measuring operational and financial performance  
                             | • Drive refinement of enterprise database systems  
                             | • Lead development of analysis and reporting of data for use in informed decision-making by senior management |