## Critical Work Functions and Key Tasks / Performance Expectations

**Critical Work Functions**

- **Provide data analytics services to internal stakeholders**
- **Build data analysis and maintain processing systems**
- **Develop data solution optimisation approaches**

**Key Tasks**

- Work with stakeholders to understand needs for data structure, availability and accessibility
- Support translation of data needs into technical system requirements
- Conduct research on hardware and software needs to support selected solutions
- Analyse latest technologies, strategies, and products in database and data processing software according to relevance to organisation
- Assist with integration of data systems with existing infrastructure
- Support identification of internal and external data sources
- Develop code, scripts and data pipelines to process structured and unstructured data near real-time
- Develop prototypes and Proof of Concepts (PoCs) for selected solutions
- Monitor data system performance
- Support handling and logging of errors
- Facilitate data cleansing, enrichment and data quality improvements
- Develop tools to improve data flows between internal and/or external systems and data warehouse
- Automate data collection and analysis processes, and data releasing and reporting tools
- Record data sources, models and algorithms used and developed in past projects

## Technical Skills and Competencies

<table>
<thead>
<tr>
<th>Skills and Competencies</th>
<th>Level</th>
<th>Generic Skills and Competencies (Top 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Analytics and Computational Modelling</td>
<td>Level 3</td>
<td>Sense Making</td>
</tr>
<tr>
<td>Data Collection and Analysis</td>
<td>Level 3</td>
<td>Problem Solving</td>
</tr>
<tr>
<td>Emerging Technology Synthesis</td>
<td>Level 3</td>
<td>Digital Literacy</td>
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<td>Ethical Culture</td>
<td>Level 3</td>
<td>Resource Management</td>
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<tr>
<td>Programming and Coding</td>
<td>Level 3</td>
<td>Transdisciplinary Thinking</td>
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<td>Software Configuration</td>
<td>Level 3</td>
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## Programme Listing

For a list of Training Programmes available for the Financial Services sector, please visit: [www.skillsfuture.sg/skills-framework/financial-services](http://www.skillsfuture.sg/skills-framework/financial-services)

The information contained in this document serves as a guide.