<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Business Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSC</td>
<td>Data and Statistical Analytics</td>
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<tr>
<td>TSC Description</td>
<td>Identify data sets for application of statistical techniques to analyse and interpret large complex data to uncover trends or patterns in order to locate and define new process improvement opportunities</td>
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<tr>
<td>TSC Proficiency Description</td>
<td>Level 1</td>
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<td>LOG-LDR-1006-1.1</td>
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<tr>
<td>Carry out collection of data for data analytics processing</td>
<td>Support collection of data required for data analytics application</td>
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</table>

**Knowledge**
- Business statistics
- Basic Microsoft Excel functionalities
- Intermediate Microsoft Excel functionalities
- Operations of statistical techniques such as mean, median and regression analysis
- SPSS Statistics functionalities
- Operations of statistical techniques such as probability theory, probability distribution and hypothesis testing
- Test conditions required for each statistical technique
- Interpretation of results from statistical modelling
- R (modelling software)
- Strengths and limitations of each statistical technique in evaluating big and complex data sets
- Knowledge of how to manipulate statistical techniques for customised big data analytics
- Factors that determine applicability of statistical models for big data analytics
- Relevance of big data analytics in improving business outcomes
- Knowledge of how big data analytics transform business decision making
- Knowledge of how big data analytics works in tandem with other forms of business analytics solutions

**Abilities**
- Identify areas with meaningful data for collection
- Carry out collection of data in formats ideal for easy manipulation
- Interpret data collected for categorisation into areas for process improvement
- Enhance quality of data collected by scrubbing and removing duplicates
- Analyse data sets using basic statistical techniques to identify trends and patterns
- Collaborate with stakeholders to identify more specific data for further analysis
- Review data sets to uncover trends or patterns
- Develop new methods to conduct analysis of large complex data sets specific to each issue
- Facilitate discussions on areas for application of big data analytics to examine issues
- Formulate approaches used for big data analytics to more bespoke solutions addressing shortfall of current system
- Devise different analytical tool sets to provide array of integrated solutions to improve business processes through big data analytics
- Guide junior employees in refinement of big data and statistical analytics specific to business
- Inspire usage of big data science as tool for business process improvements
- Influence stakeholders on importance of big data analytics to discover solutions to improve business processes
- Synergise use of big data analytics with other forms of business analytics to improve business processes

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