<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Manufacturing and Operations</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Metrology Management</td>
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<tr>
<td>TSC Description</td>
<td>Manage metrology techniques for process performance measurement as well as develop metrology recipes for process optimisation</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>ELE-OPR-5006-1.1</td>
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- **Level 1**
  - Analyse and select appropriate metrology techniques for process parameters measurement

- **Level 2**
  - Review measurement performance and perform troubleshooting on abnormalities

- **Level 3**
  - Develop new metrology techniques to optimise process performance

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- **Knowledge**
  - Tool functions
  - Measurement techniques
  - Process parameters
  - Tool operation and safety requirements
  - Recipe parameters
  - Recipe handling procedure
  - Recipe qualification procedure
  - Measurement robustness
  - Problem solving techniques

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<tr>
<th>Abilities</th>
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- **Abilities**
  - Identify the tool’s function and purpose in manufacturing process
  - Relate the manufacturing process needs with the identified tool’s function
  - Select appropriate metrology techniques based on the principles of metrology
  - Verify correct metrology technique is selected
  - Determine follow-up action required
  - Identify metrology recipe used to perform measurement
  - Manage metrology recipes
  - Verify measurement performance
  - Troubleshoot any abnormalities detected
  - Determine follow-up action required
  - Determine the metrology requirements for manufacturing process
  - Determine the appropriate measurement methodology to meet the process requirements
  - Define project scope of work and the number of hours as defined by the supervisor, based on business requirements
  - Develop metrology improvement
  - Evaluate project effectiveness
  - Recommend follow up actions