<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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<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
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<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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**Knowledge**

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

**Abilities**

- Identify tools’ functions and purposes in manufacturing processes
- Relate manufacturing process needs with the identified tools’ functions
- Select appropriate metrology techniques, based on the principles of metrology
- Verify correct metrology techniques are selected
- Determine follow-up actions required
- Identify metrology recipes used to perform measurements
- Manage metrology recipes
- Verify measurement performance
- Troubleshoot any abnormalities detected
- Determine follow-up actions required
- Determine the metrology requirements for manufacturing processes
- Determine the appropriate measurement methodologies to meet the process requirements
- Define project scopes of work and the number of hours, as defined by the supervisor, based on business requirements
- Develop metrology improvements
- Evaluate project effectiveness
- Recommend follow up actions