<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Quality Assurance and Quality Control Management</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Quality Control Management</td>
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<tr>
<td>TSC Description</td>
<td>Establish and implement quality control (QC) systems and procedures to ensure the quality of products meet desired levels of standards and compliance at all stages</td>
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<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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<tbody>
<tr>
<td>ECM-QAM-1006-1.1</td>
<td>ECM-QAM-2006-1.1</td>
<td>ECM-QAM-3006-1.1</td>
<td>ECM-QAM-4006-1.1</td>
<td>ECM-QAM-5006-1.1</td>
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<tr>
<td>Identify quality control (QC) procedures to assist in quality checks and testing for products</td>
<td>Apply appropriate quality control (QC) procedures to perform quality checks and testing to ensure product quality meets desired specifications</td>
<td>Interpret quality control (QC) system and procedures to coordinate QC related activities and to ensure the consistency of product quality</td>
<td>Develop quality control (QC) system and procedures to test and validate product quality</td>
<td>Devise the organisation’s quality control (QC) policy and objectives to ensure the quality of products meet desired levels of standards and compliance at all stages</td>
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**Knowledge**

- QC testing processes and standards
- Procedures for performing QC
- Types of equipment involved in QC testing activities
- Basic product testing and inspection methods
- Sampling methods and techniques
- Product handling procedures
- Procedures for managing non-conformance
- Principles and requirements of Quality Management System (QMS)
- Types of quality assurance and quality control (QA&QC) checks
- Critical process parameters
- Product specifications
- Qualification procedures
- Statistical data analysis
- Quality system auditing techniques
- Continuous improvement methods and techniques
- International quality management standards
- Legislation and industry Codes of Practice (COP) for quality
- Types of Quality Management Systems (QMS) and system requirements
- Quality assurance and quality control (QA&QC) strategies
- Product qualification methods
- Advanced statistical analysis techniques
- Quality monitoring methods
- Quality system audit management techniques
| Abilities | • Assist in collecting samples for testing  
• Identify the steps involved in product testing and process quality checks  
• Identify equipment used in product quality tests  
• Identify basic tests for non-conformance criteria  
• Perform process quality control checks  
• Report non-conformances | • Identify the steps involved in QC operations  
• Identify hardware and equipment for different types of inspection and testing  
• Collect samples for testing  
• Conduct testing and checks  
• Carry out in-process checks  
• Take actions for non-conformances | • Coordinate and perform product sampling according to testing schedules  
• Coordinate and perform a range of production testing and checks, according to organisational standards, policies and procedures  
• Confirm product compliance with specifications and standards  
• Take action upon non-conforming processes or test results | • Identify functions of QA&QC  
• Supervise production QA&QC functions  
• Develop product quality testing and quality check procedures  
• Analyse data covering critical process parameters  
• Supervise follow-up actions for correcting non-conformances  
• Audit the QMS  
• Liaise with internal and external parties on quality matters and standards  
• Communicate quality information across the organisation  
• Assure customer end products meet organisational and customer specifications | • Formulate QA&QC strategies  
• Review and identify functions of testing and inspection required  
• Determine appropriate tests to manage product quality  
• Analyse testing methods and routines required to assure quality  
• Review and analyse results and reports from critical process parameters  
• Manage required QA&QC follow-up actions  
• Review audits of the QMS |