<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Maintenance Management</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Gas Meter Maintenance</td>
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<tr>
<td>TSC Description</td>
<td>Implement gas meter maintenance programmes</td>
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<tr>
<td>TSC Proficiency Description</td>
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<table>
<thead>
<tr>
<th>Level 1</th>
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<th>Level 3</th>
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<th>Level 5</th>
<th>Level 6</th>
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- Perform rectification works for gas meter irregularities
- Analyse gas meter irregularities to identify root causes
- Plan maintenance programmes for meters and related equipment
- Lead the resolution of technical issues for gas meters, and drive the adoption of meter maintenance technologies

**Knowledge**

- Gas meter calibration techniques and tools
- Gas meter inspection and maintenance requirements
- Detection procedures and equipment for gas meter irregularities
- Operating principles and normal functionalities of equipment
- Documentation and reporting procedures for gas meter irregularities
- Gas meter failure investigation methods
- Failure and Root Cause Analysis (RCA) methods
- Common causes of gas meter irregularities
- Gas meter failure troubleshooting principles and practices
- Maintenance data analysis and trending interpretation techniques
- Methods for developing calibration and maintenance plans
- Routine gas meter maintenance programmes
- Gas meter replacement strategies
- Methods in the analysis of maintenance data
- Equipment maintenance optimisation techniques
- Requirements of predictive maintenance strategies
- Methods for the implementation of gas meter maintenance strategies
- Gas meter maintenance best practices
- Repair procedures for gas meter irregularities
- Automated inspection methods
- Predictive maintenance and automation technologies

**Abilities**

- Identify gas meter tampering cases and collate information for case files
- Generate statistics on gas meter performance from databases
- Select and apply appropriate gas meter maintenance procedures and practices
- Perform routine monitoring and inspections on gas meter equipment and systems
- Investigate gas meter tampering cases, and compile investigation reports for submission to authorities for court prosecution
- Collate statistics and generate reports on gas meter performance
- Provide inputs for gas meter maintenance inspection reports
- Analyse maintenance logs and documentation to identify trends and common issues
- Oversee investigation cases for tampered gas meters
- Assess gas meter performance and recommend measurements for enhancement
- Develop maintenance workflows and procedures detailing key maintenance activities and priorities
- Conduct condition monitoring analyses to predict required maintenance types and
- Develop plans for root cause analyses and reliability studies
- Advise and provide guidance on root cause analysis
- Evaluate maintenance programmes, workflows and practices
- Advise on the adequacy of investigation reports for court prosecution of gas meter tampering cases
- Provide technical advice on meter performance improvement
### Range of Application

Range of equipment includes, but is not limited to:

- **Meters**
  - Diagram and/or bellows meters
  - Diaphragm meters
  - Rotary meters
  - Turbine meters
  - Orifice meters
  - Ultrasonic flow meters
  - Coriolis meters
  - Advanced metering infrastructure (AMI)
- **Gas Custody Transferring and Metering Equipment**