<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Energy Management Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSC</td>
<td>Town Gas Production Management</td>
</tr>
<tr>
<td>TSC Description</td>
<td>Identify root cause to deviations, faults and breakdowns in order to formulate strategies to solve issues in the town gas production plant</td>
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<table>
<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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<tbody>
<tr>
<td></td>
<td>EPW-EMO-2020-1.1</td>
<td>EPW-EMO-3020-1.1</td>
<td>EPW-EMO-4020-1.1</td>
<td>EPW-EMO-5020-1.1</td>
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<tr>
<td>Identify deviations, faults and breakdowns on town gas production plants and ancillaries to prescribe rectification measures</td>
<td>Recommend methods of rectification and improvement to maintain high productivity and plant efficiency</td>
<td>Analyse data and reports to identify and propose solutions for tactical issues in town gas production plants</td>
<td>Review issues and solutions to formulate strategies and enhance town gas production plant management</td>
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### Knowledge
- End-to-end process flow and activities in town gas production
- Fundamentals of plant efficiency
- Specifications and functionalities of town gas production equipment and tools
- Plant integrity management
- Organisational Standard Operating Procedures (SOPs)
- Production performance indicators and measures
- Monitoring techniques for gauge, absolute, and/or atmospheric pressure
- Remedial and improvement methods
- New products, methods and tools
- Plant integrity management methods
- Quality control metrics
- Concept of optimal and effective operations
- Town gas experiments
- New products, methods and tools
- Catalyst and process developments
- Concept of optimal and effective operations
- Town gas production plant tactical and strategic issues including market developments which could impact plant use
- Best practices in town gas production operations and procedures
- Technology developments in the external environment
- Continuous improvement methods

### Abilities
- Identify the specifications and functionalities of town gas production equipment and tools
- Identify deviations, faults and breakdowns on the town gas production plant and ancillaries
- Perform rectification on town gas production equipment and ancillaries
- Ensure plant operation to maintain integrity
- Analyse performance of town gas production plants, equipment and ancillaries
- Anticipate possible production deviations, faults and breakdowns of equipment
- Recommend remedial and improvement actions to enhance production
- Plan and procure plant spares according to production requirements
- Design and conduct experiments
- Analyse and interpret data and reports
- Initiate and monitor remedial and improvement actions to enhance production
- Analyse equipment operation and maintenance procedures
- Review procurement of plant spares according to production requirements
- Formulate and solve strategic production problems in town gas production plants
- Plan for remedial and improvement actions for town gas production plants and their ancillaries
- Review equipment operation and maintenance procedures
- Approve procurement of plant spares according to...
<table>
<thead>
<tr>
<th>Range of Application</th>
<th>Range of application includes, but is not limited to:</th>
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<tbody>
<tr>
<td></td>
<td>- Transformers</td>
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<tr>
<td></td>
<td>o Single phase, three-phase, auto transformers</td>
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<td>- Transmitters</td>
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<td>o Pressure transmitters, temperature transmitters</td>
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<td>- Cables</td>
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<td>o Earth cables, live cables, cable protection, single core cables, three-core armoured cables, paired cables</td>
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</tbody>
</table>

- Update equipment operation and maintenance procedures
- Introduce new products, methods and tools to maintain high productivity and plant efficiency
- Recommend integrity management methods

- Adapt new products, methods and tools to improve productivity and plant efficiency
- Review new products, methods and tools to achieve high productivity and plant efficiency