### TSC Category
Energy Management Operations

### TSC
Energy Management and Audit

### TSC Description
Perform energy audits to optimise the energy performance of energy consuming systems and manage energy consumption

<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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<tr>
<td><strong>EPW-AUD-3012-1.1</strong></td>
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<td>Acquire energy consumption data through the usage of appropriate data acquisition techniques or instruments</td>
<td>Analyse energy consumption data for energy consuming systems and determine energy efficiency levels and anomalies</td>
<td>Review possible causes of anomalies that lead to inefficiencies in energy consuming systems and formulate potential energy efficiency opportunities and recommendations</td>
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<td><strong>EPW-AUD-4012-1.1</strong></td>
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### Knowledge

- Functions and capabilities of instruments used for conducting energy audits
- Computation of energy consumption and system output
- Computation of commonly used Energy Performance Indicators (EnPIs)
- Energy consumption analysis techniques
- Energy regulations, standards, codes of practice and guidelines
- Energy benchmarking
- International Organisation for Standardisation (ISO) 50001 and 50002
- Computer-based analysis tools
- Financial analysis on potential energy efficiency opportunities
- Contracting models used for energy efficiency improvement projects
- Measurement and verification protocols or standards to determine improvements in energy performance
- International Organisation for Standardisation (ISO) 50001 and 50002
- Sourcing options for renewable energy

### Abilities

- Consolidate relevant data to determine energy consumption through the use of appropriate data acquisition techniques or instruments
- Perform energy consumption and output calculations
- Perform energy efficiency calculations to compute EnPIs
- Develop objectives and scope for energy management and audit
- Analyse energy audit results and detect anomalies
- Perform comparison of system energy efficiency against established benchmarks
- Review compliance to regulations, codes of practice and guidelines
- Determine the appropriate methodology to address the anomalies and propose recommendations to enhance energy performance of energy consuming systems
- Lead financial assessment to assess the viability of energy efficiency improvements
- Identify suitable contracting models to
<table>
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<th>Procure more energy efficient systems</th>
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<td>Evaluate energy savings based on internationally recognised protocols</td>
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<td>Identify opportunities to use clean energy and more energy efficient equipment within the organisation</td>
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<td>Conduct energy audits that meet ISO 50001 and ISO 50002 requirements</td>
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