<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Site and Equipment Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSC</td>
<td>Gas Meter Installation and Commissioning</td>
</tr>
<tr>
<td>TSC Description</td>
<td>Manage installation, replacement, testing and commissioning of metering equipment</td>
</tr>
</tbody>
</table>

### TSC Proficiency Description

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
<th>Knowledge</th>
<th>Abilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>EPW-SEM-2003-1.1</td>
<td>Perform installations, testing, commissioning and calibration of gas meters</td>
<td>Install, replace or remove gas meters</td>
</tr>
<tr>
<td>Level 2</td>
<td>EPW-SEM-3003-1.1</td>
<td>Provide guidance on the installations, testing and commissioning of gas meters and operate calibration facilities</td>
<td>Perform commissioning of gas meters</td>
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<tr>
<td>Level 3</td>
<td>EPW-SEM-4003-1.1</td>
<td>Source for gas metering equipment and review piping and instrumentation diagram on meter and pressure skid regulatory requirements</td>
<td>Perform meter testing and calibrations at calibration facilities</td>
</tr>
<tr>
<td>Level 4</td>
<td>EPW-SEM-5003-1.1</td>
<td>Resolve major technical issues in the testing and commissioning processes of gas meters and integrate new metering technologies with business operations</td>
<td>Route meters to calibration facilities for testing and calibrations</td>
</tr>
</tbody>
</table>

**Knowledge**
- Specifications and schedules of various types of installation works
- Technical standards of pipes, fittings, materials and equipment used in the projects
- Gas systems and piping arrangements
- Gas safety practices
- Gas meter specifications
- Gas site & installation operations
- Isolation procedures
- Regulations and technical specifications related to various types of installation works
- Technical specifications for metering
- Calibration requirements
- Safe control of operations
- Permit-to-work application procedures
- Regulations and technical specifications of major installation works
- New metering technologies
- Smart meters and grid theories
- International best practice, standards and emerging trends

**Abilities**
- Install, replace or remove gas meters
- Perform commissioning of gas meters
- Perform meter testing and calibrations at calibration facilities
- Route meters to calibration facilities for testing and calibrations
- Perform and supervise gas meter installations, removal and replacement works
- Perform testing of metering equipment and interpret meter test reports
- Operate and maintain the calibration facilities in
- Define specific quality performance standards and/or criteria
- Oversee and source for the installation, upgrading, replacement and removal of gas meters
- Vet and approve piping and instrumentation diagrams on meter and pressure skids
- Manage and resolve technical issues in the installation, replacement, and removal of gas meters
- Manage and resolve technical issues on piping and instrumentation diagrams for meters and pressure skids
**SKILLS FRAMEWORK FOR ENERGY AND POWER**  
**TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

| • Identify faults with metering facilities and associated piping works | • Perform isolation procedures of gas equipment as required | • Identify appropriate meters for required loads | • Apply regulations, codes and standards | • Sign off permits and ensure safe working practices | • Pressure skid regulatory requirements | • Explore new metering technologies with enhanced capabilities | • Oversee the quality and technical aspect of the calibration facilities | • Review accuracy of meter data | • Advise on regulations, codes and standards | • Ensure training and knowledge are up to date for all installers and team leads | • Drive the adoption of new metering technologies | • Contribute to the development of new regulations codes and standards |

**Range of Application**

Range of application includes, but is not limited to:
- Diaphragm bellows meters
- Rotary meters
- Turbine meters
- Orifice meters
- Ultrasonic flow meters
- Coriolis meters
- Advanced metering infrastructure (AMI)