<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Maintenance Management</th>
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<th>TSC</th>
<th>Gas Cathodic Protection System Operation and Maintenance</th>
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<tr>
<th>TSC Description</th>
<th>Perform field tests and maintenance for cathodic protection systems and equipment</th>
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<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
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<th>Level 6</th>
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- **Knowledge**
  - Gas cathodic protection system principles
  - Gas cathodic protection system operational procedures
  - Voltage level data
  - Routine field tests methodologies
  - Corrosion processes
  - Types of cathodic protection faults
  - Fundamentals of corrosion
  - Non-standard field test methodologies
  - Cathodic protection techniques
  - Cathodic protection challenges
  - Data analysis methods
  - Commissioning and decommissioning procedures for gas cathodic protection systems
  - Topographical and geographical map interpretation methods
  - Cathodic protection equipment and tools
  - Coating defect assessment survey methods
  - Methods of planning for field tests and maintenance of cathodic protection systems and equipment
  - Relevant standards and regulations for gas cathodic protection systems
  - Gas cathodic protection system analysis methods
  - Fault corrective actions
  - Technical specifications for gas cathodic protection systems
  - Tender processes
  - Direct current voltage gradient (DCVG) techniques
  - Root cause analysis methods
  - New gas cathodic protection methods and equipment
  - Best industry practices for gas cathodic protection
  - Cathodic protection designs

- **Abilities**
  - Perform field tests for cathodic protection equipment
  - Assist with scheduled maintenance activities
  - Assist in the collation of data on potential
  - Perform field tests for cathodic protection equipment
  - Perform scheduled maintenance for protection systems
  - Plan and schedule cathodic protection field tests
  - Oversee the implementation of corrective steps and maintenance schedules
  - Establish the philosophy and design of cathodic protection systems
  - Troubleshoot and analyse root causes for faults
  - Explore and source for new technologies and/or...
| Difference levels and voltage levels | Implement cathodic protection tests and surveys | Prepare data and conduct analyses for pipeline protection | Supervise commissioning and decommissioning checks conducted by vendors | to manage gas cathodic protection systems | Lead in the identification of faults | Analyse data from protection systems and initiate enhancements for the systems | Oversee and ensure the effectiveness of protection systems | Prepare technical specifications and evaluate tenders for required contract works | methods of cathodic protection, and study the feasibility of implementing them | Approve cathodic protection designs |