

**POWER ENGINEERING COMPETENCY FRAMEWORK FOR POWER ENGINEERING PROFESSIONALS IN PUBLIC SERVICE  
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

<b>TSC Category</b>	Energy Operations Management					
<b>TSC Title</b>	Distributed Generation System Performance Monitoring					
<b>TSC Description</b>	Manage performance of distributed generation systems and equipment such as solar, energy storage systems and power generators to improve operational efficiency					
<b>TSC Proficiency Description</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
			<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>	
			Monitor performance of distributed generation systems and equipment	Review distributed generation systems and equipment performance reports for areas of improvements	Recommend solutions to improve performance of distributed generation systems and equipment	
<b>Knowledge</b>			<ul style="list-style-type: none"> <li>• Distributed generation equipment metrics and relevant industry standards</li> <li>• Parameters of distributed generation systems and equipment</li> <li>• Components of performance reports on generation processes</li> <li>• Data visualisation techniques</li> <li>• Data acquisition systems</li> </ul>	<ul style="list-style-type: none"> <li>• Distributed generation system and equipment metrics and relevant industry standards</li> <li>• Maintenance performance indicators for distributed generation systems and equipment</li> <li>• Distributed generation efficiency ratios</li> <li>• Metric analysis methods</li> </ul>	<ul style="list-style-type: none"> <li>• Distributed generation equipment metrics and relevant industry standards</li> <li>• Distributed generation performance models</li> <li>• Best practices in distributed generation performance improvement</li> <li>• Key industry trends for distributed generation</li> <li>• Regulations on distributed generation systems and equipment</li> <li>• Environmental consequences of distributed generation system or equipment replacement</li> </ul>	

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<p><b>Abilities</b></p>			<ul style="list-style-type: none"> <li>• Collect and record appropriate data for calculating distributed generation systems and equipment metrics</li> <li>• Calculate distributed generation systems and equipment metrics according to the applicable industry standards for analysis</li> <li>• Interpret and convert relevant data into graphical or pictorial format for analyses</li> <li>• Highlight deviations in distributed generation systems and equipment performance</li> <li>• Generate reports for distributed generation systems and equipment performance</li> </ul>	<ul style="list-style-type: none"> <li>• Analyse performance reports for relevant insights</li> <li>• Review performance reports and data against relevant metrics</li> <li>• Recommend enhancements for maintenance from distributed generation systems and equipment performance reports</li> <li>• Recommend replacement of equipment and components from distributed generation system and equipment performance reports</li> <li>• Calculate relevant efficiency ratios and maintenance performance indicators to identify areas of performance improvement</li> </ul>	<ul style="list-style-type: none"> <li>• Review performance reports, relevant ratios and indicators to formulate and/or refine strategies for distributed generation systems and equipment to maximise performance</li> <li>• Provide recommendations by infusing best practices to improve operational efficiency</li> <li>• Review maintenance and performance improvement plans for adherence to regulations and the agency's business policy and strategy</li> <li>• Set frameworks and criteria for maintenance and replacement of distributed generation systems and equipment</li> </ul>	
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