

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

TSC Category	Maintenance Management					
TSC Title	Corrective Maintenance Management					
TSC Description	Manage corrective maintenance for plants, equipment and systems, and develop plans for maintenance, repair and overhaul					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>	<Insert TSC Code>	
		Conduct diagnostic tests and inspections to identify faults and their causes, and perform basic maintenance tasks	Oversee corrective maintenance and repair works and interpret diagnostic test and inspection results	Review procedures and workflows, and recommend rectification methods for corrective maintenance	Formulate or approve maintenance strategies and performance standards for continuous improvement	
Knowledge		<ul style="list-style-type: none"> • Equipment reliability concepts • Diagnostic test methods • Inspection procedures • Fault identification techniques • Repair methods • Corrective maintenance principles • Sources of common equipment problems • Organisational requirements related to maintenance procedures • Relevant regulations, industry standards, codes of practice and safety procedures 	<ul style="list-style-type: none"> • Fault analysis techniques • Test and inspection result interpretation techniques • Equipment troubleshooting techniques • Fault location identification methods • Organisational requirements related to maintenance procedures • Relevant regulations, industry standards, codes of practice and safety procedures 	<ul style="list-style-type: none"> • Root cause analysis methods • Fault mitigation measures • Plant, equipment and system overhaul principles • Contractor capabilities in performing corrective maintenance activities • Relevant regulations, industry standards, codes of practice and safety procedures 	<ul style="list-style-type: none"> • Maintenance improvement methodologies • Corrective maintenance management best practices • Corrective maintenance planning techniques • Corrective maintenance key performance indicators (KPIs) • Plant, equipment and system overhaul principles and requirements • Relevant regulations, industry standards, codes of practice and safety procedures 	

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<p>Abilities</p>		<ul style="list-style-type: none"> • Conduct diagnostic tests and inspections on plants, equipment and systems assigned • Perform or oversee repairs on plants, equipment and systems assigned in accordance with corrective maintenance procedures • Observe organisational requirements related to maintenance procedures when performing repairs • Ensure compliance with industry standards, regulatory and project requirements 	<ul style="list-style-type: none"> • Interpret diagnostic and inspection results for corrective maintenance purposes • Identify locations of malfunctions or premature failures • Establish possible causes of faults, malfunctions or premature failure of plants, equipment and systems • Supervise repair works and report on repairs conducted by contactors • Ensure organisational requirements related to maintenance procedures are complied with • Review compliance with industry standards, regulatory and project requirements 	<ul style="list-style-type: none"> • Analyse failures of plants, equipment or systems assigned and conduct root cause analyses to identify root causes of failures • Manage schedules for annual and ad-hoc corrective maintenance activities • Recommend mitigation measures to prevent or reduce recurrences of failures • Liaise with contractors for major repairs and overhauls • Oversee all corrective maintenance works performed by contractors • Manage compliance with industry standards, regulatory and project requirements 	<ul style="list-style-type: none"> • Formulate or approve strategies for corrective maintenance management • Establish corrective maintenance management frameworks • Determine and develop adequate resources for corrective maintenance activities • Refine existing corrective maintenance processes in accordance with industry best practices • Approve plans for overhauls and system repairs • Establish corrective maintenance KPIs • Provide technical advice on corrective maintenance management issues • Drive compliance with industry standards, regulatory and project requirements 	
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