

TSC Category	Aircraft Maintenance					
TSC	Electrical Wiring Interconnection Systems Maintenance					
TSC Description	Maintain electrical wiring interconnection systems using appropriate resources and conduct functional checks after maintenance work. This includes identification and correction of wiring system degradation, incorporation of zonal inspection concept and adoption of proactive maintenance practices.					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	AER-MAI-1073-1.1	AER-MAI-2073-1.1				
	Perform maintenance of electrical wiring interconnection systems (EWIS) using appropriate tools, equipment, materials and methods	Identify appropriate resources and conduct functional checks for maintenance of electrical wiring interconnection systems (EWIS) in accordance with applicable technical manuals and organisational procedures				
Knowledge	<ul style="list-style-type: none"> • Electrical system maintenance practices • General practices for line-replaceable unit (LRU) replacement • Wire bundle installation maintenance practices • Termination and storage of unused wires • Fundamentals of electrical bonding and grounding • Overview of maintenance manual structure • Types of connective device • Quality of electrical insulation • Maintenance documentation requirements • Technical manuals, organisational standard operating procedures (SOPs) and safety practices 	<ul style="list-style-type: none"> • Typical causes of damage • Sources of aircraft internal contamination • Different types of inspection methods • Generic standards of inspection • Zonal inspection requirements and procedures • Human factors influencing inspection • Inspection criteria for wire and wire bundles • Contamination protection planning • Maintenance documentation requirements • Technical manuals, organisational standard operating procedures (SOPs) and safety practices 				

**SKILLS FRAMEWORK FOR AEROSPACE
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE**

<p>Abilities</p>	<ul style="list-style-type: none"> • Conduct visual inspections on EWIS • Identify wiring system degradations • Perform electrical maintenance on defective wires, wiring devices and terminations devices • Process required maintenance documentation • Adhere to technical manuals and SOPs • Observe and apply safety practices in the workplace 	<ul style="list-style-type: none"> • Select appropriate tools, equipment, materials and methods for maintenance of EWIS • Identify criteria of inspection in accordance with standard practices • Conduct functional checks after maintenance work to verify serviceability of EWIS • Verify conformance to technical manuals and SOPs • Ensure documentation is completed in accordance with regulatory requirements • Ensure safety practices in the workplace 				
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