

<b>TSC Category</b>	Aircraft Maintenance					
<b>TSC</b>	Aircraft Electrical Systems Maintenance					
<b>TSC Description</b>	Maintain aircraft electrical systems using appropriate resources and conduct functional tests after maintenance work. This includes checking of electrical installations and maintenance of electrical power and lighting systems.					
<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>
	<b>AER-ACO-1027-1.1</b>	<b>AER-ACO-2027-1.1</b>				
	Perform maintenance of aircraft electrical systems using appropriate tools, equipment, materials and methods	Identify appropriate resources and conduct functional tests for maintenance of aircraft electrical systems in accordance with applicable technical manuals and organisational procedures				
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>Physical features of serviceable wires and wire-loom installations</li> <li>Procedures for checking electrical installations</li> <li>Fundamentals of alternating current (AC) and direct current (DC) machines</li> <li>Process of maintaining aircraft electrical systems</li> <li>Components and basic operations of electrical power and lighting systems</li> <li>Defect and damage identification</li> <li>Maintenance documentation requirements</li> <li>Technical manuals and organisational standard operating procedures (SOPs)</li> <li>Workplace safety practices</li> </ul>	<ul style="list-style-type: none"> <li>Theory of alternating current (AC) and direct current (DC) machines</li> <li>Functions and operating characteristics of electrical installations, electrical power and lighting systems</li> <li>Types of resources and techniques for removing, installing and cleaning components</li> <li>Functional testing procedures for various aircraft electrical systems</li> <li>Defect and damage identification</li> <li>Types and purposes of maintenance documentation</li> <li>Technical manuals and organisational standard operating procedures (SOPs)</li> <li>Workplace safety practices</li> </ul>				

<p><b>Abilities</b></p>	<ul style="list-style-type: none"> <li>• Prepare aircraft electrical systems for functional checks</li> <li>• Conduct visual checks on physical condition of systems</li> <li>• Remove system components for access, bench checks or overhaul</li> <li>• Clean system components and installations using appropriate materials and methods</li> <li>• Perform installation of system components</li> <li>• Prepare aircraft electrical systems for operational checks</li> <li>• Process required maintenance documentation</li> <li>• Adhere to technical manuals and SOPs</li> <li>• Observe and apply safety practices in the workplace</li> </ul>	<ul style="list-style-type: none"> <li>• Select appropriate tools, equipment, materials and methods for maintenance of aircraft electrical systems</li> <li>• Conduct functional checks to determine serviceability of systems</li> <li>• Conduct operational tests after maintenance work to ensure systems are working properly</li> <li>• Verify conformance to technical manuals and SOPs</li> <li>• Ensure documentation is completed in accordance with regulatory requirements</li> <li>• Ensure safety practices in the workplace</li> </ul>				
-------------------------	---	--	--	--	--	--