

<b>TSC Category</b>	Aircraft Maintenance					
<b>TSC</b>	Aircraft Navigation and Automated Flight Systems Maintenance					
<b>TSC Description</b>	Maintain aircraft navigation and automated flight systems using appropriate resources and conduct functional tests after maintenance work. This includes maintenance of radar navigation, radio and inertial navigation, and automated flight control systems.					
<b>TSC Proficiency Description</b>	<b>Level 1</b> <b>AER-ACO-1030-1.1</b>	<b>Level 2</b> <b>AER-ACO-2030-1.1</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
	Perform maintenance of aircraft navigation and automated flight systems using appropriate tools, equipment, materials and methods	Identify appropriate resources and conduct functional tests for maintenance of aircraft navigation and automated flight systems in accordance with applicable technical manuals and organisational procedures				
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>• Fundamentals of radar, radio and inertial navigations</li> <li>• Process of maintaining aircraft navigation and automated flight systems</li> <li>• Components and operations of radar navigation, radio and inertial navigation and automated flight control 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>• Principles of radar, radio and inertial navigations</li> <li>• Functions of flight controls</li> <li>• Sub-systems of automated flight control systems</li> <li>• Operating characteristics of radar navigation, radio and inertial navigation and automated flight control systems</li> <li>• Types of resources and techniques for removing, installing and cleaning components</li> <li>• Functional testing procedures for various aircraft navigation and automated flight systems</li> <li>• Defect and damage identification</li> <li>• Types and purposes of maintenance documentation</li> <li>• Technical manuals, organisational standard operating procedures</li> </ul>				

		(SOPs) and safety practices				
<b>Abilities</b>	<ul style="list-style-type: none"> <li>• Prepare aircraft navigation and automated flight 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 navigation and automated flight 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 navigation and automated flight 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>				