

TSC Category	Aircraft Maintenance					
TSC	Airframe Systems Maintenance					
TSC Description	Maintain airframe systems using appropriate resources and conduct functional tests after maintenance work. This includes maintenance of aircraft hydraulic systems, aircraft flight control systems, aircraft landing gear systems, aircraft door systems, aircraft pneumatic systems and aircraft environmental control and pressurisation systems.					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	AER-ACO-1031-1.1	AER-ACO-2031-1.1				
	Perform maintenance of airframe systems using appropriate tools, equipment, materials and methods	Identify appropriate resources and conduct functional tests for maintenance of airframe systems in accordance with applicable technical manuals and organisational procedures				
Knowledge	<ul style="list-style-type: none"> • Fundamentals of airframe systems • Fundamentals of pneumatics and hydraulic power transmission • Components and operations of aircraft hydraulic, flight control, landing gear, door, pneumatic, environmental control and pressurisation systems • Defect and damage identification • Maintenance documentation requirements • Technical manuals and organisational standard operating procedures (SOPs) • Workplace safety practices 	<ul style="list-style-type: none"> • Aircraft roll, pitch and yaw control • Pascal's principles of hydraulic power transmission • Theory of pneumatics • Sources of pneumatic air supply • Operating characteristics of aircraft hydraulic, flight control, landing gear, door, pneumatic, environmental control and pressurisation systems • Types of resources and techniques for removing, installing and cleaning components • Functional testing procedures for various airframe systems • Defect and damage identification • Types and purposes of maintenance documentation • Technical manuals, organisational standard operating procedures 				

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