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



TSC Category Speci	ial Processes								
TSC Coati	Coating								
-	Perform surface coating processes on parts and components using appropriate tools, equipment, materials and methods in accordance with applicable technical manuals and organisational procedures.								
TSC Proficiency	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			
Description	AER-ACO-1033-1.1	AER-ACO-2033-1.1	AER-ACO-3033-1.1						
using	out coating processes appropriate tools, oment, materials and ods	Identify appropriate resources and conduct conformance checks on coated parts and components for compliance with required specifications and defect-free production	Develop process plans to specify appropriate materials, techniques and parameters to be used for surface coating						
int (A Or op (S Su cle Ty fix Ty co Ty an pro Cle me Ha rec pro We	elevant local and ternational standards (S7109) reganisational standard perating procedures (OPs) arface preparation and eanliness techniques and applications of tures and masking are and operation of eating processes and eanliness verification ethods and and storage quirements for coating pocesses orkplace safety and ealth requirements	 Relevant local and international standards (AS7109) Organisational standard operating procedures (SOPs) Principles and applications of hand spray and thermal spray process Techniques for flame spray and plasma spray 	 Relevant local and international standards (AS7109) Organisational standard operating procedures (SOPs) Types of surface coatings and techniques Types and applications of fixtures Types and applications of masking Applications and limitations of surface coatings process Types and operation of hand and thermal spray coatings process Selection of appropriate surface coatings based on desired final product properties Parameters and factors affecting surface coatings Concepts of quality assurance and control in surface coating Workplace safety, quality 						

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		Workplace safety, quality			
		and audit requirements			
Abilities	Check descriptions, part	Interpret task	Analyse base materials		
	and serial numbers of	requirements from	and characteristics of		
	parts and components	coating work plans to	aircraft parts and		
	against documentation	verify adherence by the	components for surface		
	Prepare parts for coating	team	coating requirements		
	operations using	 Select appropriate tools, 	 Evaluate factors affecting 		
	mechanical and chemical	equipment and	surface coatings		
	methods	machinery for coating	 Identify appropriate 		
	Set up equipment, jigs	operations	materials and techniques		
	and shields to suit job	 Identify types of coating 	for coating application		
	requirements	processes to be used	 Develop technical 		
	Conduct pre-operational	based on job	specifications and		
	checks and inspections to	specifications	process plans		
	verify working conditions	Identify plating	 Incorporate testing 		
	of tools and equipment	parameters	methods into process		
	according to job	Measure coated	plans		
	requirements	components or parts for	 Define process 		
	Perform spraying of	conformity within	parameters and work		
	components or parts	specified tolerances	instructions for coating		
	according to technical	 Monitor process 	processes		
	manuals	parameters and verify	 Design and set up quality 		
	Perform spray coating	conformance to technical	control procedures to		
	operations and adjust	specifications	address aspects of		
	appropriately to achieve	Conduct visual	product quality and		
	desired quality	inspections and hardness	compliance to regulatory		
	Conduct routine checks,	tests to identify defective	requirements		
	adjustments and	coatings	 Recommend corrective 		
	lubrication of equipment	Take corrective actions to	actions to address non-		
	Update relevant	address non-	conformances		
	documents upon	conformances			
	completion of job	Obtain verification for			
	Adhere to technical	work done from quality			
	manuals and SOPs	assurance or relevant			
	Observe and apply safety	personnel			
	practices in the	Ensure documentation in			
	workplace	accordance regulatory			
		requirements			
		Ensure safety practices in			
		the workplace			