

**SKILLS FRAMEWORK FOR ELECTRONICS
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Quality Management					
TSC	Material Qualification					
TSC Description	Manage quality of materials to ensure material specifications conform to product requirements					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				ELE-QUA-4003-1.1	ELE-QUA-5003-1.1	
				Manage the material quality by reviewing performance of material	Formulate test criteria guidelines to verify and validate new materials enhancement of the manufacturing process	
Knowledge				<ul style="list-style-type: none"> Material specifications Acceptance procedures 	<ul style="list-style-type: none"> Material analysis methods Material interface reactions and methodology for analytical verification Knowledge to define a customised analysis strategy for effective material selection and coordination of the lab workflow Physics of failure in materials related to micro-electronics assembly and test Process tools capabilities and product requirements 	
Abilities				<ul style="list-style-type: none"> Identify acceptance criteria for materials Perform acceptance of material Determine follow up actions required for non-conformance material Review performance of material with relevant parties 	<ul style="list-style-type: none"> Conduct qualification and validation of new materials Enhance the manufacturing process Conceptualise the test criteria guidelines 	