

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

TSC Category	Manufacturing and Operations					
TSC	Metrology Management					
TSC Description	Manage metrology techniques for process performance measurement as well as develop metrology recipes for process optimisation					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			ELE-OPR-3006-1.1	ELE-OPR-4006-1.1	ELE-OPR-5006-1.1	
			Analyse and select appropriate metrology techniques for process parameters measurement	Review measurement performance and perform troubleshooting on abnormalities	Develop new metrology techniques to optimise process performance	
Knowledge			<ul style="list-style-type: none"> • Tool functions • Measurement techniques • Process parameters 	<ul style="list-style-type: none"> • Tool operation and safety requirements • Recipe parameters • Recipe handling procedure • Recipe qualification procedure 	<ul style="list-style-type: none"> • Measurement robustness • Problem solving techniques 	
Abilities			<ul style="list-style-type: none"> • Identify the tool's function and purpose in manufacturing process • Relate the manufacturing process needs with the identified tool's function • Select appropriate metrology techniques based on the principles of metrology • Verify correct metrology technique is selected • Determine follow-up action required 	<ul style="list-style-type: none"> • Identify metrology recipe used to perform measurement • Manage metrology recipes • Verify measurement performance • Troubleshoot any abnormalities detected • Determine follow-up action required 	<ul style="list-style-type: none"> • Determine the metrology requirements for manufacturing process • Determine the appropriate measurement methodology to meet the process requirements • Define project scope of work and the number of hours as defined by the supervisor, based on business requirements • Develop metrology improvement • Evaluate project effectiveness • Recommend follow up actions 	