

**SKILLS FRAMEWORK FOR PRECISION ENGINEERING
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Technology Road Mapping					
TSC	Technology Road Mapping					
TSC Description	Plan short-term and long-term goals with specific technology solutions to help meet those goals in order to make capital out of future market needs					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
					PRE-TEM-5005-1.1	PRE-TEM-6005-1.1
					Drive organisation's processes using strategic technology and operation road mapping through the analysis of market trends and external drivers	Exploit the organisation's strengths to enhance its business competitiveness through strategic technology and operation road-mapping
Knowledge					<ul style="list-style-type: none"> • Methods to design, organise and prepare for the organisation's road mapping exercise • Procedures for conducting strategic analyses and performance dimensioning of an organisation's products and services • Procedures for gathering market trends and external drivers relevant to organisation's business • Procedures for prioritisation of organisation's market drivers • Procedures for formulating organisation's internal goals or drivers • Methods to prioritise organisation's internal goals or drivers • Procedures for brainstorming organisation's new products or services 	<ul style="list-style-type: none"> • Methods to design, organise and prepare for the organisation's road-mapping exercise • Procedures for conducting strategic analyses • Procedures for conducting performance dimensioning of an organisation's products and services • Procedures for gathering market trends and external drivers relevant to organisation's business • Procedures for prioritisation of organisation's market drivers • Procedures for formulating organisation's internal goals or drivers • Methods to prioritise organisation's internal goals or drivers • Methods to prioritise organisation's new products or services

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					<ul style="list-style-type: none"> • Methods to prioritise organisation's new products or services • Procedures for brainstorming of technology and resources to support development of organisation's new products or services 	<ul style="list-style-type: none"> • Procedures for charting of organisation's road map • Procedures for conducting organisation's final road mapping exercise review
Abilities					<ul style="list-style-type: none"> • Design, organise and prepare for the organisation's road mapping exercise • Conduct strategic analyses and performance dimensioning of the organisation's products and services • Gather market trends and external drivers relevant to organisation's business • Conduct prioritisation of organisation's market drivers • Formulate organisation's internal goals and/or drivers • Prioritise organisation's internal goals and/or drivers • Conduct brainstorming of organisation's new products or services • Prioritise organisation's new products or services • Conduct brainstorming for technology and resources to support development of organisation's new products or services • Conduct charting of organisation's roadmap 	<ul style="list-style-type: none"> • Design, organise and prepare for the organisation's road mapping exercise • Gather market trends and external drivers relevant to organisation's business • Prioritise organisation's market drivers • Formulate organisation's internal goals or drivers • Prioritise organisation's internal goals or drivers • Prioritise organisation's new products or services • Chart the organisation's road map • Conduct organisation's final road mapping exercise review