

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

TSC Category	Quality and Patient Safety					
TSC	Nursing Productivity and Innovation					
TSC Description	Adopt technology and innovative practices to drive quality and productivity					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		HCE-PIN-2018-1.1	HCE-PIN-3018-1.1	HCE-PIN-4018-1.1	HCE-PIN-5018-1.1	HCE-PIN-6018-1.1
		Apply technology and process redesign in delivering patient care	Use technology and process redesign to support and improve patient care outcomes	Manage change to effect continuous adoption of technologies	Lead integration of informatics and medical scientific technologies to improve productivity	Champion a culture of productivity and innovation and advocate the adoption of technology in daily work
Knowledge		<ul style="list-style-type: none"> Relevant nursing informatics and medical scientific technology systems Personal Data Protection Act (PDPA) 	<ul style="list-style-type: none"> Innovative and/or emerging tools and methods to increase productivity Information processing and data management procedures Literacy and technology fluency of information and communication technologies 	<ul style="list-style-type: none"> Application of nursing informatics, medical scientific technology and productivity models in healthcare practices, deliveries and outcomes Users' considerations towards new technology Change management and communication strategies Methods in technology evaluation and usability Clinical information technology governance models Evaluation frameworks for adoption of new technology Design thinking processes to drive innovation 	<ul style="list-style-type: none"> Innovation evidence, legal and intellectual property rights Clinical information technology analysis frameworks Best practices on the selection and implementation of technology to drive improved quality of care and operational efficiencies Ethical and social issues in nursing informatics and consumer informatics Informatics applications for telehealth, consumer health and community-based care Metrics to measure effectiveness of new technologies in the delivery of patient care Manpower optimisation through adoption of new technologies 	<ul style="list-style-type: none"> New and emerging informatics, technologies and trends around the globe Nursing informatics and medical scientific technology strategy development methods and critical success factors Organisation culture building strategies, tools and practices that promote nursing productivity and innovation Local and international best practices in innovation and productivity New sources of growth for strong and sustainable future Cross-sector and interdisciplinary learning, exchange and collaboration
Abilities		<ul style="list-style-type: none"> Use nursing informatics and medical scientific in delivering patient care Provide feedback for continuous improvement 	<ul style="list-style-type: none"> Identify areas of nursing practice that can be improved by technology Apply nursing informatics and medical scientific technology in 	<ul style="list-style-type: none"> Generate and analyse new and innovative ideas that improve productivity and practices Analyse areas of clinical practice that can be 	<ul style="list-style-type: none"> Promote best practices to adopt new technology towards quality improvement and increase productivity 	<ul style="list-style-type: none"> Plan nursing informatics and medical scientific technology strategies based on the healthcare organisation's and the

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			<p>collaboration with the healthcare teams</p> <ul style="list-style-type: none"> • Monitor the adoption of nursing informatics and medical scientific technology • 	<p>improved with the adoption of nursing informatics, medical scientific technology and process redesign</p> <ul style="list-style-type: none"> • Develop implementation plans in consultation with relevant system users and stakeholders • Develop change and communication plans on the implementation of new nursing informatics and medical scientific technology • Develop workflows for nursing teams to adopt the technology in daily work effectively • Evaluate effectiveness of nursing informatics and medical scientific technology in improving patient care and safety • Evaluate end-to-end implementation of new nursing informatics and medical scientific technology to monitor performance of systems in supporting nursing care delivery 	<ul style="list-style-type: none"> • Mitigate challenges in the adoption of new technology • Facilitate transition of care in the use of new nursing informatics and medical scientific technology • Evaluate data integrity with the adoption of new technologies • Develop work plans for the implementation of nursing informatics and medical scientific technology by analysing the practicality, feasibility and risks of new technology adoption 	<p>nation's strategic directions</p> <ul style="list-style-type: none"> • Strategise implementation of new nursing informatics and medical scientific technology to increase productivity and manpower optimisation • Drive change management in the organisation to facilitate the adoption of nursing informatics and medical scientific technology • Review efficiency and effectiveness of nursing informatics and medical scientific technology against performance metrics • Explore new technology and redesign processes to increase productivity and manpower optimisation • Guide generation and adoption of new ideas
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