## 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

<table>
<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1 HCE-PIN-2018-1.1</th>
<th>Level 2 HCE-PIN-3018-1.1</th>
<th>Level 3 HCE-PIN-4018-1.1</th>
<th>Level 4 HCE-PIN-5018-1.1</th>
<th>Level 5 HCE-PIN-6018-1.1</th>
<th>Level 6 HCE-PIN-7018-1.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply technology and process redesign in delivering patient care</td>
<td>Use technology and process redesign to support and improve patient care outcomes</td>
<td>Manage change to effect continuous adoption of technologies</td>
<td>Lead integration of informatics and medical scientific technologies to improve productivity</td>
<td>Champion a culture of productivity and innovation and advocate the adoption of technology in daily work</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Knowledge

- Relevant nursing informatics and medical scientific technology systems
- Personal Data Protection Act (PDPA)
- 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
- 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
- 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
- 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

- Use nursing informatics and medical scientific in delivering patient care
- Provide feedback for continuous improvement
- Identify areas of nursing practice that can be improved by technology
- Apply nursing informatics and medical scientific technology in
- Generate and analyse new and innovative ideas that improve productivity and practices
- Analyse areas of clinical practice that can be
- Promote best practices to adopt new technology towards quality improvement and increase productivity
- Plan nursing informatics and medical scientific technology strategies based on the healthcare organisation’s and the
| Collaboration with the healthcare teams | Improved with the adoption of nursing informatics, medical scientific technology and process redesign | Mitigate challenges in the adoption of new technology |
| Monitor the adoption of nursing informatics and medical scientific technology | Develop implementation plans in consultation with relevant system users and stakeholders | Facilitate transition of care in the use of new nursing informatics and medical scientific technology |
| Develop change and communication plans on the implementation of new nursing informatics and medical scientific technology | Evaluate data integrity with the adoption of new technologies | Evaluate end-to-end implementation of new nursing informatics and medical scientific technology to monitor performance of systems in supporting nursing care delivery |
| Develop workflows for nursing teams to adopt the technology in daily work effectively | Develop work plans for the implementation of nursing informatics and medical scientific technology | Explore new technology and redesign processes to increase productivity and manpower optimisation |
| Evaluate effectiveness of nursing informatics and medical scientific technology in improving patient care and safety | Evaluate data integrity with the adoption of new technologies | Guide generation and adoption of new ideas |
| Evaluate end-to-end implementation of new nursing informatics and medical scientific technology to monitor performance of systems in supporting nursing care delivery | Mitigate challenges in the adoption of new technology | 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 | Mitigate challenges in the adoption of new technology |
| Explore new technology and redesign processes to increase productivity and manpower optimisation | Guide generation and adoption of new ideas | Nation’s strategic directions |