

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

TSC Category	Evidence-based Practice					
TSC	Nursing Research and Statistics					
TSC Description	Collect and analyse research data and appraise published research to derive new insights and support decision-making					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			HCE-DAT-3010-1.1	HCE-DAT-4010-1.1	HCE-DAT-5010-1.1	HCE-DAT-6010-1.1
			Participate in data collection	Apply knowledge of research and statistical techniques to analyse research data and evaluate its relevance for clinical practice	Identify clinical problems and priorities to be addressed by evidence-based practice or research	Drive synergies in the analysis of data across professional groups to derive new insights
Knowledge			<ul style="list-style-type: none"> Types of data collection methods Potential weaknesses and compromises in data collection Processes for data collection, entry, verification and storage and retention Strategies to minimise data entry errors Organisation data collection guidelines Data confidentiality guidelines 	<ul style="list-style-type: none"> Good Clinical Practice guidelines for researchers Different study designs and the considerations behind each of them Statistical theories and techniques including descriptive, inferential, parametric and non-parametric statistics Literature searching strategies Principles for use of basic statistical analysis Critical appraisal of research 	<ul style="list-style-type: none"> Functionalities and limitations of different approaches to address problems identified Features and limitations of evidence-based quality improvement, evidence-based practice, research utilisation and research 	<ul style="list-style-type: none"> International standards on data safety and monitoring Various stakeholders involved in data collection and management processes Best practices or guidelines for ensuring quality of data analyses Related studies across the organisation, sector, nationally or internationally and the data they have collected

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<p>Abilities</p>			<ul style="list-style-type: none"> • Collect data to monitor the quality of nursing practice • Implement strategies to minimise data entry errors 	<ul style="list-style-type: none"> • Define data collection specifications • Coordinate collection of data • Apply appropriate statistical and analytics techniques to analyse quantitative and qualitative data • Determine significance of findings • Present findings with appropriate infographics • Identify relevance of the findings and articulate findings to key stakeholders 	<ul style="list-style-type: none"> • Ensure department data management complies with local personal data and protection regulations • Review and audit for departmental data management compliance • Identify opportunities for synergies in data analyses across teams in the department • Evaluate adequacy of studies in answering key issues • Identify implications of findings on nursing practices and development of Standard Operating Procedures (SOPs) 	<ul style="list-style-type: none"> • Endorse nursing data collection and management policies • Contribute to national level standards on data collection and management to ensure alignment of research standards across professions • Identify opportunities for synergies in data analyses across professions, organisations, or internationally • Synthesise findings across multiple studies to derive new insights into topics or areas in one's field of practice • Articulate implications of results in relation to areas of interest to the organisation or funding agencies • Advocate for application of statistical, analytics, visualisation or big data techniques in the sector
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