

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

TSC Category	Evidence-based Practice					
TSC	Scientific Writing and Communication					
TSC Description	Develop written and other communications according to established standards in the scientific community to communicate research findings accurately and efficiently to the intended audience					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			HCE-RND-3014-1.1	HCE-RND-4014-1.1	HCE-RND-5014-1.1	HCE-RND-6014-1.1
			Prepare different types of scientific articles and presentations to communicate research findings with guidance	Prepare different types of scientific articles and presentations to communicate research findings and provide instruction and guidance to junior researchers	Guide the communication and dissemination of research findings	Influence how research findings are communicated and disseminated
Knowledge			<ul style="list-style-type: none"> • Citation management tools • Requirements, citation styles, editorial styles, reporting standards and formats for scientific research papers in journals relevant to one's field of research • Submission processes for respective scientific journals and conferences relevant to one's field of research • Sections of scientific research papers, conventions surrounding their content and their typical requirements • Sections of scientific posters, conventions surrounding their content and their typical requirements • Ethical standards and guidelines surrounding publications • Typical metrics used to measure influence of scientific journals 	<ul style="list-style-type: none"> • Peer review processes for scientific journals relevant to one's field of research 	<ul style="list-style-type: none"> • Ethical standards and guidelines surrounding review processes for different types of scientific articles • Role of reviewers for scientific articles • Typical issues to consider in reviews of scientific articles • Different communication needs according to different audience profiles • Principles of mentoring • Training methods and principles • Sections of systematic review papers, conventions surrounding the content and their typical requirements • Sections of meta-analytic review papers, conventions surrounding the content and their typical requirements 	<ul style="list-style-type: none"> • Direction of research, inclusive of the type of publications they want to have and which publications to publish or present their findings • Requirements for keynote presentations at scientific conferences • Requirements for writing editorials in chosen scientific journals

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

			<ul style="list-style-type: none"> Requirements for disclosure of conflict of interests 			
Abilities			<ul style="list-style-type: none"> Apply relevant ethical standards in writing scientific publications with guidance Identify evidence supporting or contrary to research findings with guidance Utilise academic databases and academic search engines to find scientific literature relevant to one's research findings with guidance Prepare abstracts, and articles to disseminate findings according to the guidelines of chosen scientific journals or conferences with guidance Undertake submission processes to chosen scientific journals or conferences with guidance Address peer reviewers' and editorial comments on submitted manuscripts with guidance Prepare posters and oral presentations to communicate research findings to technical and non-technical audiences with guidance Deliver presentations to technical and non-technical audiences with guidance Prepare materials to engage non-scientific 	<ul style="list-style-type: none"> Apply relevant ethical standards in writing scientific publications Identify evidence supporting or contrary to research findings Utilise academic databases and academic search engines to find scientific literature relevant to one's research findings Prepare abstracts, and articles to disseminate findings according to guidelines of chosen scientific journals or conferences Undertake submission processes to chosen scientific journals or conferences Address peer reviewers' and editorial comments on submitted manuscripts Prepare posters and oral presentations to communicate research findings to technical and non-technical audiences Deliver presentations to technical and non-technical audiences Prepare materials to engage non-scientific audiences including newspaper articles, newsletters, leaflets, social media posts and online media 	<ul style="list-style-type: none"> Evaluate scientific articles for originality, validity and significance of their contribution to scientific journals Identify flaws in scientific articles as part of peer review processes Provide feedback to authors on flaws in scientific articles as well as suggestions for improvement Mentor staff in preparation of manuscripts for journals and conference slides and posters for conferences Train staff on methods of scientific writing and communications Prepare systematic review papers or meta-analyses according to the requirements of chosen journals 	<ul style="list-style-type: none"> Establish best practices to support acceptance of research papers via a system of internal reviewing and mentoring Prepare editorials for publications in chosen scientific journals Deliver presentations as keynote speakers in scientific conferences Set direction for departments' contribution to scientific journals and conferences Provide consultations on profession-related matters pertaining to scientific writing and communications

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

			audiences including newspaper articles, newsletters, leaflets, social media posts and online media with guidance			
--	--	--	--	--	--	--