

**SKILLSFUTURE SINGAPORE
CRITICAL CORE SKILLS (CCS) REFERENCE DOCUMENT**

CCS Category	Thinking Critically		
CCS	Transdisciplinary Thinking		
CCS Description	Apply concepts from multiple disciplines, and synthesise different areas of knowledge and insights to guide decisions, foster cooperation and drive continuous improvement		
CCS Proficiency Description	Basic	Intermediate	Advanced
	GSC-TRA-B002-1	GSC-TRA-I002-1	GSC-TRA-A002-1
	Explore concepts from outside one's field of expertise to supplement one's knowledge, proficiency and work practices	Identify opportunities for transdisciplinary collaboration and knowledge transfer to facilitate the integration of knowledge from different disciplines	Endorse collaboration and the integration of knowledge across disciplines to make decisions and solve problems within and outside the organisation
Knowledge	<ul style="list-style-type: none"> • Research techniques • Types of information collection tools • Verbal and non-verbal communication techniques • Types of communication channels and tools • Modes of collaboration • Knowledge sharing methods and tools • Decision-making processes • Problem-solving techniques • Self-assessment concepts • Diversity dimensions and preferences • Workplace and social etiquettes 	<ul style="list-style-type: none"> • Research and information collection methodologies • Pattern recognition techniques • Strategies for developing big picture thinking approaches • Decision evaluation and prioritisation frameworks • Stakeholder analysis techniques • Interpersonal communication techniques 	<ul style="list-style-type: none"> • Organisation's vision, objectives and operating climate • Types of organisation structures • Emerging research and information collection methodologies • Knowledge transfer systems and mechanisms • Information filtering methods • Context framing techniques • Strategies to influence diverse stakeholders • Stakeholder management strategies • Types of social, political, economic and cultural factors which impact collaboration across disciplines • Conflict management strategies
Abilities	<ul style="list-style-type: none"> • Identify areas and methods to supplement knowledge outside one's field of expertise or work area • Explore perspectives from diverse sources of information • Exchange information using identified knowledge sharing methods and tools • Perform work activities in collaboration with other co-workers from different disciplines to meet shared goals • Review own work performance to identify potential areas where knowledge from other disciplines may deliver improvements, address gaps and/or value add • Seek guidance from and consult co-workers who have knowledge in a particular work area 	<ul style="list-style-type: none"> • Establish connections, patterns and synergies between information gathered from diverse sources of information • Integrate knowledge from different disciplines to develop effective solutions • Explore opportunities to leverage new sources of information or collaborations in new ways • Analyse other areas in the organisation to identify potential collaboration opportunities • Integrate inputs from stakeholders across other disciplines to recommend decisions and prioritisation approaches • Evaluate the effectiveness and impact of current transdisciplinary collaboration and knowledge transfer interventions • Recommend changes to work processes that restrict knowledge transfer and transdisciplinary collaboration 	<ul style="list-style-type: none"> • Establish systems and mechanisms to facilitate effective knowledge transfer across disciplines • Establish opportunities within the organisation for co-workers from different disciplines to collaborate • Lead the development of strategic transdisciplinary partnerships across and beyond the organisation • Determine interdependencies between different disciplines when making decisions that impact the organisation • Synthesise information extracted from different disciplines to develop new insights • Endorse solutions that impact different disciplines in the organisation and address organisation-wide problems • Oversee the removal of any barriers to transdisciplinary collaboration across the organisation • Evaluate emerging research and information collection methodologies and recommend updates to organisation's knowledge transfer and transdisciplinary collaboration approaches