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| **TSC Category** | Risk Management, Governance and Regulatory Compliance | | | | | |
| **TSC Title** | Cyber Risk Management | | | | | |
| **TSC Description** | Develop cyber risk assessment and treatment techniques that can effectively pre-empt and identify significant security loopholes and weaknesses, demonstration of the business risks associated with these loopholes and provision of risk treatment and prioritisation strategies to effectively address the cyber-related risks, threats and vulnerabilities identified to ensure appropriate levels of protection, confidentiality, integrity and privacy in alignment with the security framework | | | | | |
| **TSC Proficiency Description** | **Level 1** | **Level 2** | **Level 3** | **Level 4** | **Level 5** | **Level 6** |
|  |  |  | **ICT-SNA-4007-1.1** | **ICT-SNA-5007-1.1** | **ICT-SNA-6007-1.1** |
|  |  |  | Develop cyber risk assessment techniques and roll-out endorsed measures to address identified cyber security risks, threats and vulnerabilities | Assess and direct enhancements to cyber risk assessment techniques, and develop strategies to address cyber security loopholes | Evaluate the readiness and robustness of the organisation's cyber security defences, and authorise cyber risk assessment activities |
| **Knowledge** |  |  |  | * Cyber risk assessment techniques * Security risks, threats and vulnerabilities * Possible treatments of security risks, threats and vulnerabilities * Required levels of confidentiality, integrity, privacy and personal data protection as well as privacy technologies | * Design of cyber risk assessment techniques * Projection of cyber security risks, threats and vulnerabilities * Key requirements and objectives of various cyber risk assessments * Pros and cons of various treatment approaches * Business risks and implications from cyber security loopholes | * Key business implications of cyber risk assessment and testing policies * Evolving security landscape and emerging cyber security threats * Measures of organisational readiness against threats * Assessment of potential business risks from security loopholes |
| **Abilities** |  |  |  | * Develop cyber risk assessment techniques to identify security loopholes and weaknesses in the business * Design cyber risk assessments by consolidating insights from the business and various functions * Identify cyber security risks, threats and vulnerabilities, and their impact on the organisation * Identify possible treatments for cyber risks, threats and vulnerabilities identified * Implement endorsed treatment and measures to address security gaps | * Guide the development of cyber risk assessment techniques * Pre-empt risks, vulnerabilities and threats across organisation policies, processes and defences * Evaluate effectiveness of current cyber risk assessment techniques * Direct improvements or modifications to vulnerability assessment techniques in view of emerging security risks and threats * Lead the implementation of cyber risk assessment activities throughout organisation, ensuring alignment with organisation's policies and principles * Analyse cybersecurity loopholes identified and project business risk and impact to the organisation * Evaluate options and decide on suitable treatment of cyber risks, threats and vulnerabilities * Develop strategies to address loopholes and ensure appropriate levels of protection, confidentiality, integrity and personal data protection | * Establish organisation's position and strategy for assessing and managing cyber risk * Determine security testing policies and authorise the management of all testing activities within the organisation * Articulate implications of potential cyber threats on requirements of organisational readiness and assessment techniques * Weigh potential business risks associated with cyber security risks, threats and vulnerabilities surfaced * Assess overall strength of the organisation's existing defences in light of evolving internal and external security landscape * Endorse strategies to effectively address the security risks, threats and vulnerabilities identified and evaluate potential costs to the organisation to implement the strategies |
| **Range of Application** |  | | | | | |