Information System Security Officer (ISSO)

NICE	None.
Framework	
Reference	
Functional	This is an adhoc management role within cybersecurity that is primarily
Description	engaged in oversight and reporting of information system security within
-	a department, branch, or organization. This role is primarily responsible
	for local planning and management of the security of system(s) over
	which they have been given authority. This role may report indirectly or
	directly to the CISO or another authority (e.g. Corporate Security Officer
	or Chief Information Officer or their delegate).
Consequence	Error, neglect, outdated information or poor judgment could result in
of error or risk	decisions or actions that could compromise the security of the system
	over which the ISSO has authority. Depending on the system, this could
	have a significant impact on the business. A lack of a full appreciation of
	the business needs for security will jeopardize the security posture of the
	organization in the face of evolving threats.
Development	This is commonly a part-time role assigned or assumed by an individual
pathway	with some technical experience but is not normally a 'cybersecurity
	professional'. In small and medium organizations this role may also be
	an IT manager or senior manager with some technical or security
	experience.
Other titles	Chief Security Officer
	Departmental Security Officer
	 Information Security Director
	Note: depending on the size of the organization and the reliance on
	information technology, this occupational role may be subsumed within
	the responsibilities of the Chief Information Officer, Chief Technology
	Officer, Chief Resiliency Officer or similar role.
Related NOCs	0213 – Communication and Information Systems Managers
Tasks	Collaborate with key stakeholders to plan and establish an effective
	cybersecurity risk management program.
	Ensure compliance with the changing laws and applicable
	regulations
	Develop and implement strategic plans that are aligned to the
	organizational objectives and security requirements
	Direct and approve the design of cybersecurity systems
	Identify, acquire and oversee management of financial, technical and paragenal resources required to support outpersources.
	and personnel resources required to support cybersecurity
	objectivesAdvise other senior management on cybersecurity programs,
	policies, processes, systems, and elements
	 Ensure development and implementation of security controls to
	support organizational objectives
	 Review, approve, oversee monitoring of cybersecurity policies and
	controls
	 Ensure incident response, disaster recovery and business continuity
	plans are in place and tested
	Draft terms of reference, oversee and review cybersecurity
	investigations
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Required qualifications	 Maintain a current understanding the IT threat landscape for the business context; Schedule and oversee security assessments and audits Oversee and manage vendor relations related to acquired IT security products and services Supervise or manage protective or corrective measures when a cybersecurity incident or vulnerability is discovered. Education Post-secondary education in a cyber or IT related field (e.g.; Computer engineering, Computer Science, Information Technology, Business Technology Management – Digital Security or equivalent)
	Training As required to support the role for example cybersecurity team management, incident management and cybersecurity planning would be an asset.
	Work experience 3-5 years' experience in IT domain with some management experience.
Tools &	Strategic and business plans
Technology	 Threat and risk assessments
	 Vulnerability management processes and vulnerability assessments
	 Incident management processes and procedures
	 Security event and incident management systems and/or incident reporting systems and networks,
	 Cybersecurity risk management processes & policies
	 Privacy and security legislation
	 Organizational security infrastructure and reporting systems
Competencies	Underpinning this occupation are those competencies demonstrated for an executive level which include those identified within the NICE framework.
	Basic application of the following KSAs: ☐ Integrated/organizational security concepts, principles and practice (software, system, data, physical and personnel) ☐ Preventative technical, operational and management controls available and organizational responsibilities for those controls ☐ Sector/context relevant threats, business needs and technical infrastructure ☐ Project management and security requirements throughout the project lifecycle ☐ Supply chain vulnerabilities and integrity
	Advanced application of the following KSAs: Organizational threats and vulnerabilities including: Cybersecurity threat landscape
	 Vulnerability management requirements and the range of potential mitigations available when a vulnerability management protocol does not exist Organizational security infrastructure including protective and defensive systems
	 Cybersecurity team management Developing, implementing and allocating resources, personnel and technology to address organizational security objectives.

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