

000009 Perform a security assessment for an organisation

Kaupae Level	5
Whiwhinga Credit	15
Whāinga Purpose	<p>This skill standard is for people who want to learn how to perform security assessment in organisational contexts.</p> <p>It is for computer technicians, help desk and technical support officers, and anyone else employed in roles that involve Information Technology (IT) technical support.</p> <p>It can be used in the New Zealand Diploma in Information Technology Technical Support (Level 5) [ref. 2596]</p>

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Analyse ethical and legal aspects of information security in an IT environment and how they contribute to IT decision making.	<p>a. Evaluate the impact of ethical principles and work practices on IT decision-making in the organisation.</p> <p>b. Identify specific IT initiatives or policies within an organisation that apply the IT professional Code of Ethics.</p> <p>c. Evaluate the areas within the IT organisation that address Te Tiriti o Waitangi.</p>
2. Apply information security principles within an organisation to assess its security procedures and policies.	<p>a. Explain the significance of confidentiality, integrity, and availability (CIA triad) in information protection.</p> <p>b. Investigate the organisation's security policies and procedures in maintaining a secure environment.</p> <p>c. Define and recommend effective security policies and procedures for an IT organisation.</p>
3. Perform security assessments for an organisation	<p>a. Analyse an organisation's threats to information security, including malware, social engineering, and insider threats.</p> <p>b. Use security assessment tools to perform vulnerability assessment and analyse risk factors in an organisation.</p> <p>c. Analyse attack vectors and techniques to exploit vulnerabilities of an organisation.</p>
4. Utilise appropriate tools to assess organisational security	<p>a. Use vulnerability scanning tools to assess and identify security vulnerabilities within an organisation.</p> <p>b. Use network security simulators to create and assess secure network configurations.</p> <p>c. Apply role-based access control (RBAC) principles to manage user permissions effectively.</p>

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

You will need to apply the skills outlined in the assessment criteria to a range of scenarios in which you will be given the opportunity to assess the security of an organisation.

The assessment must take place in a realistic practical setting which incorporates industry standard technologies relevant to current practice.

The assessor may gather evidence for this assessment over time from a range of scenarios as opposed to a single assessment in which the learner must apply all of the assessment criteria.

To complete this standard, you must utilise the IT Professionals NZ Code of Ethics. This is accessible from the IT Professionals New Zealand website www.itp.nz

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

- IT Professional Code of Ethics
- Cybersecurity Ethics
- Te Tiriti o Waitangi
- Information Security Principles
- Security Assessments
- Tools for Security Assessments (e.g., CSAT, OWASP ZAP, OpenVAS, Wireshark)
- Human behaviour that affects security

Rauemi | Resources

- The IT Professionals New Zealand Code of Ethics is available at <https://itp.nz/practice-guidelines>.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Toi Mai Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Computing and Information Technology > Computing > Generic Computing
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0099

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	<type here>	[dd mm yyyy]	[dd mm yyyy]
Arotakenga Review	<type here>	[dd mm yyyy]	[dd mm yyyy]
Kōrero whakakapinga Replacement information	<type here>		
Rā arotake Planned review date	[dd mm yyyy]		

Please contact Toi Mai Workforce Development Council at qualifications@toimai.nz to suggest changes to the content of this skill standard.

DRAFT