

**SKILLS FRAMEWORK FOR SECURITY
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

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| TSC Category | Security Technology Management | | | | | |
| TSC | Robotics and Automation Application | | | | | |
| TSC Description | Apply and integrate evaluated technologies into organisational operations or processes to achieve desired outcomes and reduce reliance on manual tasks | | | | | |
| TSC Proficiency Description | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
| | | SEC-TEM-2003-1.1 | SEC-TEM-3003-1.1 | SEC-TEM-4003-1.1 | SEC-TEM-5003-1.1 | |
| | | Apply procedural knowledge of robotic systems and automated technologies to execute security tasks | Supervise use of robotics and automated technology to execute security tasks | Review performance of automated workflows for process improvements | Formulate new security workflows to adopt robotics and automated technologies to streamline processes | |
| Knowledge | | <ul style="list-style-type: none"> Types of robotic systems, automated technologies and process control systems used for security tasks Methods of operating robotic systems for security tasks Procedures for safe machinery operation | <ul style="list-style-type: none"> Organisational security workflows Principles of automated technologies and robotic systems Procedures for setting up and inspecting robotic systems and automated technologies Approaches to oversee security tasks through the use of robotic systems and automated technologies | <ul style="list-style-type: none"> Ranges of application for automated technologies and robotic systems Methods of evaluating resources and skills to carry out security tasks using automated technologies and robotic systems Types of logic control programmes Concepts pertaining to performance specification and analysis Best practices in robotics and automation Components of robots Principles of path and trajectory planning | <ul style="list-style-type: none"> Organisation's products and processes Methods of developing detailed operating procedures for automated technologies and robotic systems Methods to influence adoption of new technologies Impact of robotics and automation on environmental services operations Principles of change management | |
| Abilities | | <ul style="list-style-type: none"> Operate automated technologies and robotic systems by following manufacturers' instructions and operating procedures Follow safety procedures when operating | <ul style="list-style-type: none"> Oversee the use of automated technologies and robotic systems Identify basic faults in the use of automated technologies and robotic systems for security processes | <ul style="list-style-type: none"> Evaluate various automated technologies and robotics systems to compare strengths and limitations Evaluate feasibility of using automation and | <ul style="list-style-type: none"> Determine range of application, resources, skill requirements and production feasibility for automated technologies and robotic systems Develop technical operating procedures | |

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| | | <p>automated technologies and robotic systems</p> <ul style="list-style-type: none"> Identify and report any issues with the automated technologies and robotic systems | <ul style="list-style-type: none"> Apply corrective actions for automatic and manual shut-down during critical and emergency situations Review feedback on operation of automated technologies and robotic systems and incorporate into updated operating procedures | <p>robotic systems in security processes</p> <ul style="list-style-type: none"> Assess improvements to security processes Evaluate benefits and trade-offs of implementing robotics into the business | <p>for robotics and automation</p> <ul style="list-style-type: none"> Evaluate benefits and trade-offs of implementing advanced robotics and automation into the business Formulate processes and procedures for security components that are using robotics and automation Determine post-processing procedures for security components that are using robotics and automation | |
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