

**Specification of Competency Standards**  
**for the Retail Industry**  
**Unit of Competency**

Functional Area - Transaction Security Technology

Title	Master computer virus detection and prevention technology
Code	107235L4
Description	Apply computer virus prevention technology to establish a comprehensive computer virus prevention strategy. When the computer virus crisis occurs, find the root causes of the crisis and reduce the destructive crisis so as to protect the corporate e-business system.
Level	4
Credit	6 ( For Reference Only )
Competency	<p>Performance Requirements</p> <p>1. Master the basic concepts and knowledge of computer viruses</p> <ul style="list-style-type: none"> <li>• Understand the basic principles of computer viruses <ul style="list-style-type: none"> <li>○ Understand the structure of the computer virus</li> <li>○ Understand the computer virus infection strategy</li> <li>○ Understand the mechanism of computer viruses</li> </ul> </li> <li>• Identify the classification of computer viruses, including: <ul style="list-style-type: none"> <li>○ Classification according to the virus attack system classification, such as attack Windows, UNIX or other systems</li> <li>○ Classification according to the virus attack models classified, such as attack microcomputers, minicomputers or workstations</li> <li>○ Classification according to the virus link classification, such as source code virus, embedded virus, shell virus, operating system virus</li> <li>○ Classification according to the destruction of the virus classification, such as benign computer viruses, malignant computer viruses</li> <li>○ Classification according to the virus parasitic classification, such as guided virus, file type virus, complex virus, etc.</li> <li>○ Classification according to the virus of the media classification, such as stand-alone virus, network viruses</li> </ul> </li> </ul> <p>2. Apply computer virus detection and prevention technology</p> <ul style="list-style-type: none"> <li>• Select and apply system detection methods, including: <ul style="list-style-type: none"> <li>○ Using the latest virus identifiers and the updated anti-virus virus detection and repair engine</li> <li>○ Review all router and firewall records</li> <li>○ Configure IPS or IDS to identify infection-related activities</li> <li>○ Perform packet sniffing to find network traffic that conforms to malicious code features</li> </ul> </li> <li>• Select and apply computer virus prevention technology, including: <ul style="list-style-type: none"> <li>○ Repair the operating system and its bundled software vulnerabilities</li> <li>○ Install and timely update anti-virus software and firewall products</li> <li>○ Do not point to unknown links and run unknown programs</li> <li>○ Implement anti-virus technology</li> <li>○ Perform real-time monitoring technology</li> <li>○ Perform automatic decompression technology</li> <li>○ Perform full platform anti-virus technology</li> </ul> </li> </ul> <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Ensure the introduction of the most suitable computer virus prevention technology and coping strategies and in line with the interests of corporate.</li> </ul>

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	<ul style="list-style-type: none"><li>• Ensure the computer virus prevention strategy would not violate the relevant the laws of Hong Kong</li></ul>
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"><li>• Understand the basic concepts of computer viruses.</li><li>• Identify computer virus classification.</li><li>• Properly select and apply appropriate anti - computer virus technology.</li></ul>
Remark	