

# Specification of Competency Standards for ICT Operation and Support

## Unit of Competency

### Functional Area: Network Support

Title	Install and configure network components/devices
Code	107880L2
Range	This unit of competency applies to support personnel who install and configure network components or devices in a small internal Local Area Network (LAN) environment. A small network would comprise of Internet connection with wireless and wired Internetworking devices such as switches, routers, wireless LAN Access Points (AP).
Level	2
Credit	3
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> <li>1. Knowledge for installing and configuring network components/devices: <ul style="list-style-type: none"> <li>• Possess basic network troubleshooting skills</li> <li>• Possess good knowledge of system and network monitoring equipment</li> <li>• Possess good knowledge of internetworking devices</li> <li>• Possess good knowledge of network concepts, such as: <ul style="list-style-type: none"> <li>• Network types</li> <li>• Types of cables and distance limits</li> <li>• Wireless LAN</li> </ul> </li> <li>• Possess good knowledge of the TCP/IP protocol</li> <li>• Possess basic knowledge of procedures for handling electrical devices</li> </ul> </li> <li>2. Installing and configuring network components/devices <ul style="list-style-type: none"> <li>• Comprehend the installation requirements including: <ul style="list-style-type: none"> <li>• Types of network component/device</li> <li>• Verify location is suitable for the installation work</li> </ul> </li> <li>• Prepare for installation work <ul style="list-style-type: none"> <li>• Assess network component/device power and cabling needs</li> <li>• Verify location is suitable for the installation</li> <li>• Acquire the network component/device</li> <li>• Acquire technical manuals and comprehend the installation and configuration instructions</li> <li>• Acquire network configuration information for the network component/device</li> </ul> </li> <li>• Perform the installation of network component/device complying to the organisation and manufacturer's procedures</li> <li>• Configure and test the network component/device to ensure it complies with the organisation's network requirement</li> <li>• Clean installation site and return equipment to appropriate location</li> <li>• Document the installation and configuration according to the organisation guidelines and standards</li> </ul> </li> <li>3. Exhibit professionalism <ul style="list-style-type: none"> <li>• Adhere to the organisation's occupational safety procedure</li> <li>• Well converse with industry's networking best practices</li> </ul> </li> </ol>
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> <li>• Be well prepared for the installation work</li> <li>• Follow the work order and install the network component/device according to the manufacturer and the organisation procedures</li> <li>• Perform post installation procedures satisfactorily and well document the configuration details and installation work according to the organisation standard procedures</li> </ul>
Remark	