

**Functional Area: Network Infrastructure & Operation (Operation / Support & Maintenance)**

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|------------------------|---|
| 1. Title               | Perform reconfiguration of IP network equipment   |
| 2. Code                | ITCSNO324A  |
| 3. Range               | The scope of this UoC concerns with defining competencies for reconfiguration of IP network equipment. Network equipment can be any components or devices of the core, access or user's network such as switches, routers, radio transmitters, microwave towers, seabed cables, or any software systems, etc.   |
| 4. Level               | 3   |
| 5. Credit              | 3   |
| 6. Competency          | <p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Possess the knowledge in the subject area</p> <ul style="list-style-type: none"> <li>• Possess extensive knowledge of the IP functions and features of the network device/equipment that is being worked on</li> <li>• Knowledgeable of TCP/IP and other relevant transmission protocols</li> <li>• Experienced with configuring IP equipment (gateways, terminals, routers, etc)</li> <li>• Able to use configuration tool and interpret configuration requirements from operational instructions/manuals, if necessary</li> <li>• Experienced with using testing devices and protocol analysers for testing and measuring IP equipment</li> <li>• Able to determine the impacts of IP configuration on the application or network</li> </ul> <p>6.2 Perform reconfiguration of IP network equipment</p> <p>Be able to:</p> <ul style="list-style-type: none"> <li>• Comprehend the job order to determine which and what IP devices/equipment require reconfiguration. Also determine the reason for reconfiguration e.g. equipment faults, poor performance, software update, etc</li> <li>• Perform the preliminary preparation of the reconfiguration procedure, such as locate technical manuals of the device/equipment, identify location of the network device/equipment, collect the correct tools for assisting in reconfiguration and testing of the network device/equipment, etc</li> <li>• Perform a backup record of the current IP settings, which can be used for rollback if the reconfiguration was unsuccessful</li> <li>• Perform the required reconfiguration of the devices/ equipment</li> <li>• Prepare testing tools or environment to test the reconfigured devices/equipment</li> <li>• Collect statistics and other related information or test results which indicates the reconfiguration was successful</li> <li>• Record the reconfiguration procedures and new settings to formulate the work completion report and seek supervisor or appropriate stakeholder for signoff</li> </ul> <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Follow the required safety procedures while performing the reconfiguration work</li> <li>• Ensure the reconfiguration work is performed to meet the required quality and standards</li> </ul> |
| 7. Assessment Criteria | The integrated outcome requirements of this UoC are the abilities to: <ol style="list-style-type: none"> <li>i. read the work order and perform the preliminary preparations correctly</li> <li>ii. perform the reconfiguration work successfully</li> <li>iii. test the reconfigured equipment to ensure it is performing to the manufacturer and/or job requirements and does not have adverse effects on system applications or the network</li> <li>iv. formulate a completion report with appropriate information that can certify the successful completion of the reconfiguration work</li> <li>v. ensure the work is signed off by appropriate person</li> </ol>  |
| Remark                 |   |