

## UoCs in Network Infrastructure & Operation

### Functional Area: Network Infrastructure & Operation (Implementation)

1. Title	Perform installation of Optical Fibre cables at Residential / Commercial Buildings
2. Code	ITCSNO201A
3. Range	This UoC includes installation of indoor Optical Fibre cables for voice, data or multi-media services at user end.
4. Level	2
5. Credit	2
6. Competency	<p><b>Performance Requirement</b></p> <p>6.1 Possess the knowledge in the subject area</p> <ul style="list-style-type: none"> <li>• Comprehend Site Plan/Drawing</li> <li>• Follow health and safety procedures</li> <li>• Follow equipment and cabling installation instructions</li> <li>• Posses knowledge of cabling procedure and techniques</li> <li>• Proficient with using tool to splice, join and recoat fibre cables</li> <li>• Understand structured cabling system</li> <li>• Possess cable testing techniques</li> <li>• Use of appropriate cabling tools and test equipment</li> <li>• Use of hand-held terminal/PDA/Notebook computer</li> </ul> <p>6.2 Perform installation of Optical Fibre cables at Residential / Commercial Buildings</p> <p>Be able to:</p> <ul style="list-style-type: none"> <li>• Obtain cabling work orders from team leader or direct from computer system</li> <li>• Perform components/parts/tools collection for the cabling job</li> <li>• Perform fibre cabinet, fibre tray and splitter installation</li> <li>• Perform optical fibre cabling</li> <li>• Perform optical fibre termination (for fibre cables) with fibre connector or splice by stripping (remove protective coating) cables, then cleaned to ensure the end face free from dust/dirt (can be inspected by microscope) as well as the fibres are aligned and fused together followed by recoating or application of splice protector</li> <li>• Label or mark cables</li> <li>• Carry out attenuation tests</li> <li>• Make a recording of work performed and complete job order report</li> </ul> <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Follow safety procedures at every step during the installation.</li> <li>• Perform Installation of cables at the highest quality and standard and seek supervisor advice when encounter difficulties.</li> <li>• Communicate job status and work progress to customer to acquire their trust and confidence.</li> <li>• Represent the organisation in a professional manner.</li> </ul>
7. Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ol style="list-style-type: none"> <li>i. understand the job requirement from supervisor or job order</li> <li>ii. identify different types of cables and have the right cables and tools for the job</li> <li>iii. carryout the cabling preparation, installation and related works to the required quality and standards</li> <li>iv. perform testing with appropriate tool to ensure the cable is functioning to required standard</li> <li>v. complete the necessary job completion documentation</li> <li>vi. communicate job status to customer so that they are satisfied with the completed job</li> </ol>
Remark	The competencies in this UoC also apply to optical fibre cable maintenance