

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

1. Title	Perform installation of underground cables
2. Code	ITCSNO203A
3. Range	This UoC includes installation of the underground cables. The installation process includes threading of cables through already prepared ducts/pipes at manholes/pits/trenches openings and joining of cables. Cables can be metallic or fibre.
4. Level	2
5. Credit	3
6. Competency	<p><u>Performance Requirement</u></p> <p>6.1 Possess the knowledge in the subject area</p> <ul style="list-style-type: none"> <li>• Comprehend cabling Plans/Drawings</li> <li>• Understand work safety procedures and regulations</li> <li>• Use cabling tools and follow installation instructions, from manuals when necessary</li> <li>• Possess knowledge of site setup and outdoor cabling procedures</li> <li>• Experienced in installing outdoor cabling</li> <li>• Use appropriate cabling tools</li> <li>• Able to work with colleagues</li> <li>• Capable of identifying various types of underground cables</li> </ul> <p>6.2 Perform installation of underground cables</p> <p>Be able to:</p> <ul style="list-style-type: none"> <li>• Work with team leader to understand work orders including drawings, plans, requirements, established procedures, and material lists, cable sizes, cable types, duct sizes and duct types, existing joints, amplifiers, etc. Site inspection may also be required.</li> <li>• Determine and obtain relevant work permits for access and perform work according to requirements and/or established procedures</li> <li>• Obtain the necessary resources for the job order, including equipment, tools and personal protective equipment required for the job</li> <li>• Prepare the site for the cabling job including cleaning, erecting barriers, pumping flooded manhole/trench, cleaning of ducts, etc</li> <li>• Prepare cable dispensing method (cable drums, cable spool) and pulling mechanisms to prevent cable kinking, burning, sheath damage, cable stretching, etc</li> <li>• Work with colleagues to feed the cable into the duct with suitable tension to ensure cable is not damaged</li> <li>• Perform cable jointing or connect to amplifiers, if required</li> <li>• Perform cable tests to the required standard</li> <li>• Perform labeling or marking of cables</li> <li>• Perform cleaning and tidying the work area, including replacement of manhole/trench covers</li> <li>• Perform work completion report</li> </ul> <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Observe and follow safety procedures at every step of the cable laying job</li> </ul>
7. Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to: <ol style="list-style-type: none"> <li>i. comprehend the work order and prepare the necessary cables, tools/equipment and other resources for the job.</li> <li>ii. perform site preparation complying to the organisation work and safety procedures and regulations</li> <li>iii. work with colleagues to feed the cables into the ducts with proper tension and without damaging the cable</li> <li>iv. perform cleaning of work site</li> <li>v. perform completion report for filing and supervisor signoff</li> </ol>
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