

Functional Area: Network Infrastructure & Operation (Implementation)

1. Title	Perform installation of wireless antennas
2. Code	ITCSNO308A
3. Range	This UoC includes installation of directional or omni directional wireless antennas in public areas for mobile technologies like GSM/UMTS.GPS, WIMAX, LTE, 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"> • Comprehend and follow Site Plan/Drawing • Comprehend antenna installation instructions • Knowledgeable of network protocols such as TCP/IP • Knowledgeable of Mobile Transmission principles • Possess knowledge of antenna and RF principles • Experienced with installation of RF antenna • Knowledgeable of various Access Network technologies like GSM, WiMAX, LTE, public WIFI, 3GPP, etc <p>6.2 Perform installation of wireless antennas</p> <p>Be able to:</p> <ul style="list-style-type: none"> • Identify the work requirements from work orders or from supervisors • Perform preliminary site preparation such as: power points, network access points, etc. • Perform antenna mount and fixtures preparations • Install/mount the antennas • Adjust the angle of the antenna to maximise reception/transmission • Connect power supply • Connect the antenna link to the access network • Perform testing of the antenna • Complete installation report <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> • Follow safety procedures at every step during the installation • Ensure equipment are installed to the required quality standard
7. Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ol style="list-style-type: none"> i. work with colleagues to understand the antenna installation requirements such as antenna type, positions, etc ii. prepare the installation and install the required antenna to conform to the work requirements iii. perform testing of the antenna to ensure it is operating to the required specification as per indicated by the manufacturer or the organisation
Remark	