1. Title	Investigate the effectiveness of applying green technologies into existing network and
	NOC
2. Code	ITCSN0508A
3. Range	Operators are looking for better TCO (Total Cost of Ownership) in their network infrastructure. An area where costs of operation can be reduced would be having greener network operation centres (NOC) or switching stations where substantial amount of electricity is needed to keep network and equipment running. This UOC concerns investigating the effectiveness of applying green technologies in existing networks and NOC.
4. Level	5
5. Credit	3
6. Competency	Performance Requirement
	<ul> <li>6.1 Possess the knowledge in the subject area</li> <li>Exhibit professionalism</li> <li>6.3 Exhibit professionalism</li> <li>6.4 Posses area exteriable to the professionalism</li> <li>6.5 Exhibit professionalism</li> <li>6.6 Posses extensive experiance with conclusion and recomment the professionalism</li> <li>6.6 Posses extensive experiance with server consolidation and virtual machine (VM) concepts</li> <li>Possess extensive experience with server consolidation and virtual machine (VM) concepts</li> <li>Possess extensive experience with server consolidation and virtual machine (VM) concepts</li> <li>Understand health and safety procedures and government regulations</li> <li>Be able to:</li> <li>Formulate a green technology evaluation strategy based on organisation green policy, local government regulatory requirements and international standards</li> <li>Develop formulas and measurement processes which can be used to evaluate energy efficiency of network products based on its usage, or how much recyclability of each component, or how much recycled materials used to build the component/ device, etc</li> <li>Formulate baseline metrics for network equipment evaluation. May use vendor's stated statistics or figures or from internal records</li> <li>Perform the evaluation procedures and collect the needed data and statistics for analysis by comparing the acquired statistics with the baseline and manufacturers' figures</li> <li>Document the investigation process with conclusion and recommendation for submitting to stakeholders</li> <li>Follow green practices which comply with the organisation business policies and strategies as well as local regulatory requirements</li> <li>Always take into consideration and strike a proper balance among all related technological, political, social, envir</li></ul>
7. Assessment Criteria	<ul> <li>The integrated outcome requirements of this UoC are the abilities to:</li> <li>i. formulate evaluation procedures which can measure and determine the "green factor" of a network component/technology</li> <li>ii. create baselines which can be effectively used for comparison and analysis</li> <li>iii. document and make appropriate recommendation</li> </ul>
Remark	

## Functional Area: Network Infrastructure & Operation (Planning & Design)