Specification of Competency Standards for the Information & Communications Technology Industry Unit of Competency

Functional Area - DMT Architecture

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Title	Develop infrastructure performance testing
Code	108055L4
Description	This unit of competency applies to all Digital Media Technology (DMT) practitioners responsible for infrastructure performance testing. With internal infrastructure connected to CDN one would expect performance to be comparable or better than the origin, since CDNs should have highly optimised servers and the first packet should not have too far to go. The content download should be much faster, since the edge nodes are closer to the end user than the origin is. This UoC concerns development of testing to monitor performance of CDN.
Level	4
Credit	3
Competency	Performance Requirements 1. Knowledge for Developing infrastructure performance testing
Competency	 Possess good project management skills and capable of formulating business strategies Possess in-depth knowledge of developing and implementing network test plans and protocols Possess in-depth knowledge of infrastructure network design and network risk management methodologies Possess in-depth knowledge in network congestion, network inspection tools, OS kernel parameters impacting the overall network bandwidth Possess good understanding of CDN delivery requirements for different platforms, such as PC, mobiles, tablets, and Virtual Reality (VR) wearable devices, etc. Develop infrastructure performance testing: Work with CDN service provider:

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	3. Exhibit professionalism
	 Be updated with current CDN technologies and committed to ensure contents are delivered to the users/customers at the expected performance Passionate about traffic optimisation and associated technologies
Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to:
	 Work with CDN service provider effectively, to develop full mapping of organisation's infrastructure with true picture of configuration settings which can be used in testing adjustments and result formation Formulate a full list of test matrices that can present a true picture of the CDN performance Develop test plans and testing procedures that can guide the testers to carry out tests and deliver the result in the required format
Remark	