

Specification of Competency Standards
for the Banking Industry
Unit of Competency

Functional Area - 6. Technology Management
(Key Function – 6.5 Enterprise Intelligence)

Title	Construct and implement Big Data Analytics and Information Management System
Code	109400L5
Range	Building and implementing systems to analyse large volume of complex data sets including, but not limited to product, operations, credit, risk and business-related areas from both technology perspective and business angle, hence to provide useful information for the bank to make business decisions.
Level	5
Credit	4 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Knowledge in the Subject Area</p> <p>Be able to:</p> <ul style="list-style-type: none"> • Understand the development trend of Big Data Analytics and carry out relevant technology architecture consulting approaches including information delivery, analytics and business intelligence based on data collected from different sources to design Big Data Analytics and Information Management System; • Master big data technologies and use them effectively in the bank. <p>2. Applications</p> <p>Be able to:</p> <ul style="list-style-type: none"> • Design and implement data ingestion techniques for real time and batch processes for video, voice, weblog, sensor, machine and social media into the bank's data bank; • Formulate and implement strategies, architectures, ingestion, storage, consumption and delivery processes for complex, large volume, multi-variation, batch and real time data sets used for modelling, data mining, and research purposes; • Transform numbers and statistics into actionable information for bank management to predict, plan and adapt their strategies to meet business challenges; • Design and implement reporting and visualization for unstructured and structured data sets; • Design and develop data cleansing routines utilizing typical data quality functions involving standardization, transformation, rationalization, linking and matching; • Manage data analytics experts to perform data studies and data discovery routines for video, voice, weblog, sensor, machine and social media data sources or mash ups of new and existing data sources. <p>3. Professional Behaviour and Attitude</p> <p>Be able to:</p> <ul style="list-style-type: none"> • Report data findings creatively in a variety of interest arousing formats that appropriately provides insights to the bank; • Take steps to constantly observe and review the most recent development in data analytics management and security protection, and explore grounds for improving the bank's standards.
Assessment Criteria	<p>The integral outcome requirements of this UoC are:</p> <ul style="list-style-type: none"> • Formulation of strategies and architectures for large volume of data sets used for analysis and report insightful findings for the bank's business decision making;

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	<ul style="list-style-type: none">• Implementation of Big Data Analytics and Information Management System which can provide insights to the bank and safeguard the data security.
Remark	