Specification of Competency Standards for the Retail Banking
Unit of Competency

Technology Management > 5.2 Enterprise Intelligence

Title	Construct and implement Big Data analytics and Information Management system
Code	107432L5
Range	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
Competency	Performance Requirements 1. Capable of using big data analytics skills 　　Be able to: • Carry out relevant technology architecture consulting approaches including Information delivery, analytics and business intelligence based on data from hybrid of Hadoop Distributed File System (HDFS), non-relational and relational Data Warehouses, etc. to perform big data analysis • Master big data technologies such as: MapReduce, Hive, HBase, Sqoop, Storm etc. and use them effectively 2. Design data ingestion techniques and formulate strategies for large volume data sets for modeling and research purposes 　　Be able to: • Design and implements data ingestion techniques for real time and batch processes for video, voice, weblog, sensor, machine and social media data into Hadoop ecosystems and HDFS clusters • Formulate and implement strategies, architectures, ingestion, storage, consumption and delivery processes for complex, large-volume, multi-variate, batch and real time data sets used for modeling, 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 3. Execute data analytics management functions professionally 　　Be able to: • 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 • 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	The integral outcome requirements of this UoC are: • Formulate strategies and architectures for large-volume of data sets used for analysis and report insightful findings for the bank's business decision making
Remark	