

Unit	Data Management Infrastructure SQA Unit Code – HD53 04	
Code	DADMI	QCF:
Level	SCQF: 9	QCF: 4/5
Credit Value	SCQF: 18	QCF: tbc
Unit summary	<p>This unit is concerned with the management of large, highly dynamic data sets to enable data analysis. These data sets are often referred to as 'Big Data' and typically include semi- and un-structured data in addition to structured data. The data will be derived from a range of sources and can relate to contexts including business and scientific or social research.</p> <p>The unit covers hardware, software and associated procedures.</p>	
Learning Outcomes The candidate will:		Assessment Criteria
1. Investigate current and future organisational data requirements	<p>1.1 Describe the different types of data being stored and their importance to the organisation</p> <p>1.2 Describe the physical data storage architecture in use</p> <p>1.3 Describe the logical data storage architecture in use</p> <p>1.4 Evaluate the effectiveness of data cleansing and data reduction strategies against organisational needs</p> <p>1.5 Evaluate how well the current systems will meet anticipated future needs</p> <p>1.6 Evaluate the currency and completeness of organisational policies and procedures for data storage and management</p>	
2. Use the data capture and storage facilities of a distributed data management system	<p>2.1 Configure data storage to meet given specifications</p> <p>2.2 Capture and store diversely formatted data from a variety of sources for subsequent analysis</p> <p>2.3 Apply access, security and ownership settings to stored data in line with organisational policies</p> <p>2.4 Manipulate and link different data sets as required</p> <p>2.5 Archive, backup and delete data in line with organisational policies</p>	
3. Use the data cleansing and data	3.1 Identify and correct errors in data values to enhance	

reduction facilities of a distributed data management system	<p>future analysis</p> <p>3.2 Locate missing data values and update as appropriate to the intended analysis</p> <p>3.3 Standardise data formats in line with organisational policies</p> <p>3.4 Identify and deal with duplicate data in line with organisational policies</p> <p>3.5 Create grouped data as appropriate to the intended analysis</p>
Additional information about the unit	
Guidance on approaches to assessment	<p><i>This unit <b>must</b> be assessed in the workplace. The actual data and/or the data management system may either be situated in the candidate's own organisation or, where the candidate's organisation is supplying a service, in another.</i></p> <p><i>The assessment criteria are intended to be system neutral and the terminology used may be interpreted to meet the context of the particular data management system in use.</i></p>
Details of the relationship between the unit and relevant National Occupational Standards or other professional standards	This unit is based on the NOS for Data analytics.
Location of the unit within the subject/sector classification system	IT Professional
Name of the organisation submitting the unit	The Tech Partnership