



Australian Government

BSBXBD403 Analyse big data

Release: 1

BSBXBD403 Analyse big data

Modification History

Release	Comments
Release 1	This version first released with BSB Business Services Training Package 6.0.

Application

This unit describes the skills and knowledge required to analyse transactional and non-transactional big data in order to provide insights that are used in an organisation. It involves identifying trends and relationships within big data, and establishing data acceptability. It also involves forming recommendations based on the analysis, and reporting on analysis findings.

It applies to those who work in a broad range of industries and job roles using big data analysis techniques in their day-to-day work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Data Literacy – Data Literacy

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine purpose and scope of big data analysis	1.1 Determine organisational requirements for big data analysis 1.2 Identify internal and external sources of big data to be analysed according to organisational policies and procedures and legislative requirements 1.3 Establish and confirm parameters to be applied in analysis according to organisational policies and procedures
2. Analyse initial trends and relationships in	2.1 Categorise and prepare captured big data for analysis 2.2 Extract and transform structured and unstructured big data in preparation for data analysis

ELEMENT	PERFORMANCE CRITERIA
captured big data	2.3 Analyse big data and derive insights into trends using required tools and dashboards
3. Finalise big data analysis	3.1 Conduct statistical analysis to confirm accuracy of big data analysis 3.2 Isolate and remove identified incorrect results 3.3 Develop report on key outcomes from analysis 3.4 Store analytics results, associated report and supporting evidence according to organisational policies and procedures, and legislative requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Learning	Modifies behaviour following exposure to new information
Numeracy	- Uses mathematical and statistical concepts required to analyse big data - Completes at times complex calculations and records numerical data
Reading	Identifies and interprets information from sources to complete work
Writing	Uses clear, specific and industry-related terminology to represent outcomes of big data analysis in reports
Planning and organising	Efficiently and logically sequences the stages of big data analysis
Technology	- Uses appropriate technology platforms to analyse big data - Basic programming to conduct big data analysis

Unit Mapping Information

No equivalent unit. New unit.

Links

Companion Volume Implementation Guide is found on VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

Assessment Requirements for BSBXBD403 Analyse big data

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- analyse trends and relationships in two different sets of big data: one transactional and one non-transactional
- report on the results and insights from each analysis
- store analytics results from each of the two big data sets according to organisational policies and procedures.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- purpose and benefits to organisation of big data analysis
- legislative requirements relating to analysing big data, including data protection and privacy laws and regulations
- organisational policies and procedures relating to analysing big data, including for:
 - identifying big data sources
 - establishing and confirming categories to be applied in analysis
 - analysing data to identify business insights
 - integrating big data sources, including structured, semi-structured, and unstructured
 - combining external big data sources, such as social media, with in-house big data
 - reporting on analysis of big data, including the use of suitable reporting and business intelligence (BI) tools
- industry protocols and procedures required to write basic queries to search combined big data
- required analytical techniques and tools to analyse transactional and non-transactional big data, including:
 - data mining
 - ad hoc queries
 - operational and real-time business intelligence

- text analysis
- statistical concepts relating to big data analytics
- relationship between raw big data and big datasets
- common models and tools to analyse big data, including features and functions of Excel software for advanced analytics of external big data
- sources of uncertainty within big data
- classification categories of analytics, including text, audio/video, web and network
- role of technology and automation tools in performing big data analytics.

Assessment Conditions

Skills must be assessed in a workplace or simulated environment where conditions are typical of a work environment that uses big data.

Access is required to:

- information and telecommunications equipment required to analyse big data
- big data sets to be analysed
- industry standards, organisational procedures, and legislative requirements required to demonstrate the performance evidence.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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