



Australian Government

BSBXBD404 Use big data for operational decision making

Release: 1

BSBXBD404 Use big data for operational decision making

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, interpret and apply insights from big data when making operational decisions. It involves applying skills in decision making and techniques for using big data in day-to-day work.

It applies to those who work in leadership and management positions, including in their own small business, in a broad range of industries who use big data analytics to drive their operational decision making.

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. Identify business requirements relating to big data	1.1 Scope and confirm operational decision-making requirements 1.2 Identify opportunities for use of big data in business decision making 1.3 Confirm nature and scope of report requirements
2. Interpret big data sources and summaries	2.1 Access required big data sources and summaries according to organisational policies and procedures and legislative requirements 2.2 Apply insight analysis and descriptive statistics that support operational decision making 2.3 Use findings to identify insights that relate to identified operational decision-making requirements

ELEMENT	PERFORMANCE CRITERIA
3. Make operational decision based on big data analysis	3.1 Draft report on data analytics, applying identified insights to operational decision-making requirements 3.2 Seek input and integrate feedback from required stakeholders according to organisational policies and procedures 3.3 Finalise and distribute recommendations to required personnel according to organisational 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 concepts and statistics required to use big data for operational decision-making - Completes at times complex calculations and records numerical data
Oral communication	Asks open and closed probing questions and actively listens when seeking input and feedback
Reading	Identifies and interprets information from relevant 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 big data analytics to draw out insights and trends
Technology	Uses appropriate technology platforms when using big data

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 BSBXBD404 Use big data for operational decision making

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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:

- interpret and use a big data set as the basis for two different operational decisions in work area.

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:

- legislative requirements relating to accessing and using sources and summaries of big data and big data sets, including data protection and privacy laws and regulations
- organisational policies and procedures relating to using big data, including for:
 - scoping and confirming operational decision-making requirements
 - accessing big data sources and summaries
 - combining external big data sources, such as social media, with in-house big data sets
 - integrating big data and analytics into operational workflow
 - reporting on use of big data in relation to operational decisions described in performance evidence
 - seeking input and feedback from required stakeholders
 - distributing report on big data analytics
- operational decision-making requirements relating to use of big data, including timelines
- procedures for data-driven decision making, including what-if analysis scenarios and tools for optimisation and simulations
- techniques for presenting big data analytics:
 - charts
 - heat maps
 - scatterplots
 - dashboards

- statistical tools
- key programming protocols and techniques required to use big data for operational decision making
- domain knowledge of business processes required to demonstrate the performance evidence.

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 and use big data sets
- big data sources and summaries suited to business requirement in performance evidence
- 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.

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