



Australian Government

BSBXBD407 Protect big data integrity

Release: 1

BSBXBD407 Protect big data integrity

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 protect and monitor the integrity of transactional and non-transactional big data in an organisation.

It applies to those who work in a broad range of industries and job roles who are responsible for protecting the integrity of big data when managing, storing and transferring it.

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. Prepare to protect integrity of big data	1.1 Identify big data set to be protected 1.2 Review workplace governance arrangements in place for protecting the integrity of big data 1.3 Verify security of big data platform, including cloud security, according to organisational policies and procedures 1.4 Confirm security arrangements in place relating to big data secure storage and transaction logging
2. Apply policies to protect big data	2.1 Apply privacy policies to all data assets that require privacy protection 2.2 Apply security policies to all data assets that require confidentiality 2.3 Apply intellectual property policies to all data assets that contain private and confidential business information

ELEMENT	PERFORMANCE CRITERIA
3. Monitor big data integrity	3.1 Check encryption and undertake real-time monitoring of logs to identify anomalies that arise 3.2 Identify and report malfunctioning infrastructure and any attacks on infrastructure that pose a threat to data integrity 3.3 Conduct privacy impact assessments on big data 3.4 Confirm that data protection practices comply with required standards
4. Respond to breaches in big data integrity	4.1 Identify where big data breaches have occurred according to organisational policies and procedures 4.2 Escalate data breach incidents according to organisational policies 4.3 Consult with required internal and external stakeholders and communicate breach efficiently 4.4 Audit big data breaches and report findings 4.5 Support management with post-breach and audit reviews

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	• Completes and manipulates at times complex calculations and records numerical data
Reading	• Interprets at times complex big data and breach information
Oral communication	• Asks open and closed probing questions and actively listens when consulting with stakeholders
Writing	• Uses clear, specific and industry-related terminology to complete and update audits and reports
Planning and organising	• Efficiently and logically sequences the stages of protecting the integrity of big data
Technology	• Uses appropriate technology platforms protect to protect the integrity of 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 BSBXBD407 Protect big data integrity

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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:

- protect the integrity of two different sets of big data in a work area: one set must be of transactional big data and one set of non-transactional big data.

During the above, the candidate must apply data protection policies and protocols.

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 and standards relating to protecting the integrity of big data, including data protection and privacy laws and regulations
- organisational policies, procedures and protocols relating to protecting the integrity of transactional and non-transactional big data, including for:
 - ensuring accuracy, availability and scalability of big data
 - verifying security of big data platform
 - monitoring data discrepancies between different sources
 - monitoring big data integrity
 - identifying where big data breaches have occurred
 - ethical management and governance of big data, including consideration of ensuring a balance between availability and confidentiality of big data
- key components of workplace governance arrangements relating to protection, performance, scalability and availability of big data, including:
 - procedures for creating and maintaining inventory of big data assets
 - policies to prevent big data being used inappropriately
- protocols for dynamic and scalable access control of big data
- compliance requirements and regulations relating to big data loss

- key components of policies in place for protecting the confidential and private business information and intellectual property in big data assets:
 - privacy policies
 - security policies
 - intellectual property policies
- infrastructure security, integrity and reactive security as they relate to protecting the integrity of big data.

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 protect the integrity of big data
- big data sets suited to 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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