



Australian Government

PSPGEN065 Interpret data and related statistics

Release: 1

PSPGEN065 Interpret data and related statistics

Modification History

Release	Comments
1	This unit was released in PSP Public Sector Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to PSPGOV524A Interpret data and related statistics. • Unit code updated • Content and formatting updated to comply with new standards • All PC transitioned from passive to active voice

Application

This unit describes the skills required to interpret data and related statistics. It includes interpreting graphs or tables, interpreting data and its summarised highlights, interpreting a range of official statistics in a policy environment, presenting statistical results and guiding others in the interpretation of data.

This unit applies to those working in generalist and specialist roles within the public sector.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would work independently seeking advice as required, performing complex tasks in a range of familiar contexts.

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

Competency Field

General

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used,

outcomes	further information is detailed in the range of conditions section.
1. Interpret a graph or table	1.1 Write reports based on data that identify relevant relationships within data. 1.2 Calculate row and column percentages from a table. 1.3 Interpret data represented in a table or graph.
2. Interpret data and its summarised highlights	2.1 Define and explain data summaries and trends in a manner suited to the audience. 2.2 Interpret survey data according to accepted standards. 2.3 Interpret data and summarise its highlights. 2.4 Verify interpretation with a suitably qualified person.
3. Interpret a range of official statistics in a policy environment	3.1 Identify and explain data summaries and trends. 3.2 Interpret statistical tests and explain this interpretation. 3.3 Critique the sampling method or survey design. 3.4 Interpret the data in such a way as to inform decision making. 3.5 Verify interpretation with a suitably qualified person. 3.6 Identify the shortcomings of statistical applications in the policy environment.
4. Present statistical results	4.1 Present data in tables, charts and maps so that the reader does not misconstrue it. 4.2 Include glossaries, technical notes and referencing where required. 4.3 Prepare and present reports that include statistical concepts, tables, charts and maps. 4.4 Present findings in a way that is most appropriate for the audience. 4.5 Use charts in presentations that are appropriate to the variables and adhere to accepted standards.
5. Guide others in the interpretation of data	5.1 Define data summaries and trends clearly and communicate to staff involved in the project. 5.2 Communicate the assumptions upon which the interpretation is based, in accordance with audience needs.

Foundation Skills

Foundation skills are embedded within the elements and performance criteria of this unit.

Unit Mapping Information

This unit supersedes and is equivalent to PSPGOV524A Interpret data and related statistics.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=bebbece7-ff48-4d2c-8876-405679019623>

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Assessment Requirements for PSPGEN065 Interpret data and related statistics

Modification History

Release	Comments
1	These Assessment Requirements were released in PSP Public Sector Training Package release 1.0 and meet the Standards for Training Packages. Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- applying legislation, regulations and policies relating to statistical work
- explaining the results of an analysis in writing
- constructing graphs, tables and maps using software
- using presentation software
- communicating with diverse audiences including explaining, interpreting, presenting results

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- public sector legislation including WHS and environment, regulations, policies, procedures and guidelines relating to statistical work
- summary statistics
- statistical tests and related assumptions
- different methodologies and related assumptions
- the quality of a statistic
- sources of error including standard error
- data collection methodologies
- sources of expertise within the organisation
- 'how numbers relate' or the associations between statistics
- the ethical issues associated with presenting statistical results

- intellectual property issues and how they might relate to the data
- confidentiality issues relating to the data
- relevant style manuals

Assessment Conditions

This unit contains no specific industry-mandated assessment conditions. Guidance on suggested and recommended conditions and methods can be found in the Implementation Guide.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors

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