



Australian Government

Department of Education, Employment and Workplace Relations

PSPSCI201A Contribute to the provision of scientific technical support

Revision Number: 3

PSPSCI201A Contribute to the provision of scientific technical support

Modification History

Release	TP Version	Comments
3	PSP12V1	Unit descriptor edited.
2	PSP04V4.2.	Layout adjusted. No changes to content.
1	PSP04V4.1	Primary release.

Unit Descriptor

This unit covers the provision of technical support in a scientific/research environment, working under direct guidance and contributing to routine technical duties such as experimental, survey, sampling and/or analytical tasks. It includes confirming and preparing for technical tasks, contributing to the collection of information and recording data. In practice, the contribution of technical support overlaps with other generalist or specialist work activities such as acting ethically, communicating, delivering client service, accessing and using resources, handling information, working safely. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.

Application of the Unit

Not applicable.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements are the essential outcomes of the unit of competency. Together, performance criteria specify the requirements for competent performance. Text in ***bold italics*** is explained in the Range Statement following.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

- | | |
|---|---|
| 1. Confirm and prepare for technical tasks | <p>1.1 <i>Technical tasks</i> are clarified and confirmed with <i>other staff members</i> in accordance with organisational requirements.</p> <p>1.2 <i>Processes, resources</i>, timelines and <i>equipment</i> requirements are confirmed in accordance with organisational and task requirements.</p> <p>1.3 Risk management practices, occupational health and safety, environmental and <i>other legislative requirements</i> relating to the work are investigated and confirmed.</p> <p>1.4 Resources and equipment are obtained and prepared in accordance with organisational and task requirements .</p> |
| 2. Contribute to the collection of information | <p>2.1 Technical tasks are carried out under supervision in accordance with organisational requirements.</p> <p>2.2 Information is collected in accordance with set processes and timelines.</p> <p>2.3 Resources and equipment are used and maintained in accordance with organisational and task requirements.</p> <p>2.4 Risk management practices, occupational health and safety, environmental and other legislative requirements are followed in accordance with organisational requirements.</p> |
| 3. Record data | <p>3.1 Data is recorded in accordance with organisational and task requirements.</p> <p>3.2 Data records are maintained in accordance with organisational requirements.</p> |

Required Skills and Knowledge

This section describes the essential skills and knowledge and their level, required for this unit.

Skill requirements

Look for evidence that confirms skills in:

- working with mathematical data
- observing and reporting
- using a range of communication styles to suit different audiences and purposes
- responding to diversity, including gender and disability
- reading formal documents such as legislation and workplace instructions and applying them in the workplace
- using technology for word processing and data management
- operating machinery and experimental equipment
- applying occupational health and safety and environmental requirements related to working in a scientific/technological research environment

Knowledge requirements

Look for evidence that confirms knowledge and understanding of:

- legislation, regulations, policies, procedures and guidelines relating to the provision of scientific technical support
- basic experimental procedures and scientific methods
- the scientific/technological area (broad understanding)
- organisational code of practice
- standard operating procedures and/or work instructions
- working with others in a scientific/technical environment
- occupational health and safety, environmental protection and other public sector legislation

Evidence Guide

The Evidence Guide specifies the evidence required to demonstrate achievement in the unit of competency as a whole. It must be read in conjunction with the Unit descriptor, Performance Criteria, the Range Statement and the Assessment Guidelines for the Public Sector Training Package.

Units to be assessed together

- *Pre-requisite* units that must be achieved prior to this unit: *Nil*
- *Co-requisite* units that must be assessed with this unit: *Nil*
- *Co-assessed units* that may be assessed with this unit to increase the efficiency and realism of the assessment process include, but are not limited to:
 - PSPGOV201B Work in a public sector environment
 - PSPGOV202B Use routine workplace communication techniques
 - PSPGOV203B Deliver a service to clients
 - PSPGOV204B Access and use resources
 - PSPGOV206B Handle workplace information
 - PSPOHS201B Follow workplace safety procedures

Overview of evidence requirements

In addition to integrated demonstration of the elements and their related performance criteria, look for evidence that confirms:

- the knowledge requirements of this unit
- the skill requirements of this unit
- application of the Employability Skills as they relate to this unit (see Employability Summaries in Qualifications Framework)
- contribution to routine scientific technical duties in a range of (3 or more) contexts such as experimental, survey, sampling and/or analytical tasks (or occasions over time)

Resources required to carry out assessment

These resources include:

- legislation, procedures, guidelines and protocols
- operating procedures/work instructions
- industry standards
- scientific/technological equipment and machinery related to the research environment
- personal protective equipment
- case studies and workplace scenarios to capture the range of situations likely to be encountered when contributing to the provision of scientific technical support

Where and how to assess evidence

Valid assessment of this unit requires:

- a workplace environment or one that closely resembles

normal work practice and replicates the range of conditions likely to be encountered when contributing to the provision of scientific technical support, including coping with difficulties, irregularities and breakdowns in routine

- contribution to routine scientific technical duties in a range of (3 or more) contexts such as experimental, survey, sampling and/or analytical tasks (or occasions over time)

Assessment methods should reflect workplace demands, such as literacy, and the needs of particular groups, such as:

- people with disabilities
- people from culturally and linguistically diverse backgrounds
- Aboriginal and Torres Strait Islander people
- women
- young people
- older people
- people in rural and remote locations

Assessment methods suitable for valid and reliable assessment of this competency may include, but are not limited to, a combination of 2 or more of:

- case studies
- demonstration
- observation
- portfolios
- projects
- questioning
- scenarios
- simulation or role plays
- authenticated evidence from the workplace and/or training courses

For consistency of assessment

Evidence must be gathered over time in a range of contexts to ensure the person can achieve the unit outcome and apply the competency in different situations or environments

Range Statement

The Range Statement provides information about the context in which the unit of competency is carried out. The variables cater for differences between States and Territories and the Commonwealth, and between organisations and workplaces. They allow for different work requirements, work practices and knowledge. The Range Statement also provides a focus for assessment. It relates to the unit as a whole. Text in ***bold italics*** in the Performance Criteria is explained here.

Technical tasks may include:

- surveys
- sampling
- experiments
- trials
- tests
- assays
- surveillance
- collecting specimens
- inspections
- identification of plants or animals
- identification of pests
- operation, calibration and maintenance of experimental equipment
- diagnostic processes
- producing specimen images

Other staff members may include:

- supervisors
- project managers
- line managers
- laboratory managers

Processes may include:

- experimental processes
- observation
- field trials

Resources may include:

- design specifications
- technical manuals
- componentry
- radioactive samples
- specimens
- plants
- seeds
- chemicals
- personal protective equipment

Equipment may include:

- prototypes
- test rigs
- tools
- diagnostic instruments
- laboratory equipment
- experimental equipment
- farm equipment

Other legislative requirements may include:

- quarantine or protection requirements
- copyright and intellectual property legislation
- Australian standards

Unit Sector(s)

Not applicable.

Competency field

Government Science & Technology.