



Australian Government

CPPSIS5039 Plan and implement spatial projects

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5039A Produce spatial project deliverables.

This version first released with CPP Property Services Training Package Version 3.

Application

This unit of competency specifies the outcomes required to plan, implement and complete spatial projects to produce client-specified deliverables. The unit covers project planning processes to allocate and organise equipment, materials and resources; adhere to financial, administrative and legal requirements; and manage project risks and contingencies. The unit also covers designing, producing and validating spatial project deliverables and products. It requires the ability to interpret technical information relating to spatial products, and to communicate verbally and in writing with a range of project stakeholders.

The unit supports those who work in a lead role in a surveying or spatial information services team in areas such as surveying, cartography, town planning, mapping and geographic information systems (GIS).

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

Pre-requisite Unit

Nil

Unit Sector

Surveying and spatial information services

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.

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| 1. Develop spatial project plan. | 1.1. Spatial project specifications and client requirements are identified and analysed, and then confirmed and clarified with <i>appropriate persons</i> . |
| | 1.2. Resources, equipment and materials are determined and organised according to project specifications and |

- organisational requirements.
- 1.3. Appropriate persons are informed of their involvement in project, parameters of their responsibilities, and project communication processes.
 - 1.4. Key activities and timelines are scheduled with full consideration given to project specifications, available resources, and organisational requirements.
 - 1.5. Risk management and contingency strategies are incorporated into documented project plan to meet administrative, legal and organisational requirements.
2. Implement spatial project plan.
- 2.1. Project management mechanisms are implemented to monitor, record and report project progress in relation to project plan.
 - 2.2. Computations and analysis are undertaken for spatial product development according to project specifications.
 - 2.3. Project deliverables are designed and produced according to project specifications and project plan.
 - 2.4. **Metadata** is created according to project specifications and organisational requirements.
 - 2.5. Project deliverables are validated against project specifications and irregularities are identified, reported and resolved.
3. Monitor and complete spatial project.
- 3.1. Project is monitored against specifications and plan, and contingencies managed to ensure quality is maintained.
 - 3.2. Actual expenditure is monitored to control costs according to organisational requirements.
 - 3.3. Project is completed and checked to ensure compliance with specifications, plan and organisational requirements.
 - 3.4. Project documentation is completed and outcomes are reported to appropriate persons.

Foundation Skills

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

Skill	Performance feature
Learning skills to:	• identify areas for improvement to meet budget constraints.
Numeracy skills to:	• use mathematical language and representation to prepare and communicate budgetary and financial information.
Oral communication skills to:	• ask questions to seek information and confirm understanding.
Reading skills to:	• interpret detailed technical descriptions of surveying data • interpret graphical information within image data.
Writing skills to:	• develop plans, reports and recommendations using technical language.
Technology skills to:	• use a computer and software to manage, manipulate, archive and retrieve spatial data.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Appropriate persons</i> must include at least two of the following:	• client • end user • manager • qualified surveyor • spatial data provider • supplier.
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Metadata must include at least four of the following:

- availability
- conditions of use
- coordinate system
- currency
- custodian
- data accuracy
- data description
- date of acquisition
- licence
- quality
- source
- spatial data acquisition methodologies
- version control.

Unit Mapping Information

CPPSIS5039A Produce spatial project deliverables

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>