**QUALIFICATION CODE**  CPP41720

**QUALIFICATION TITLE** Certificate IV in Surveying and Spatial Information Services

**QUALIFICATION DESCRIPTION**

This qualification reflects the role of entry level technicians who work under supervision to assist a surveying or spatial information services team. Surveying and spatial information skills are applied in a range of industry contexts including town planning, civil construction, mining, engineering, health, agriculture and defence.

Survey technicians perform a range of duties using surveying tools and equipment, including Total Stations and global navigation satellite systems (GNSS), supported by data management skills.

Spatial information services technicians perform a range of duties using geospatial technologies, specialised software and data management skills.

No licensing, legislative, regulatory or certification requirements apply to this qualification at the time of publication. Cadastral surveying must be undertaken under the supervision of a registered surveyor. Relevant state and territory regulatory authorities should be consulted to confirm those requirements.

This qualification is suitable for an Australian traineeship pathway.

**ENTRY REQUIREMENTS**

There are no entry requirements for this qualification.

**PACKAGING RULES**

To achieve this qualification, competency must be demonstrated in 15 units of competency consisting of:

* 3 core units and
* 12 elective units.

This qualification provides for a specialisation in either **surveying** or **spatial information**. The RTO is to insert the specialisation on the testamur, either

CPP41720 Certificate IV in Surveying and Spatial Information Services (Surveying)

OR

CPP41720 Certificate IV in Surveying and Spatial Information Services (Spatial Information).

For a specialisation in **Surveying**, electives are to be selected as follows:

* a minimum of 6 units from Group A, and
* 6 units selected from Group A, Group B and/or Group C, or
* up to 2 of the 6 elective units from Group A, Group B and/or Group C may be selected from any current training package or accredited course provided they contribute to a valid, industry-supported vocational outcome, maintain the AQF level of this qualification and do not duplicate the outcome of another unit used to achieve the qualification.

For a specialisation in **Spatial Information,** electives are to be selected as follows:

* a minimum of 6 units from Group B, and
* 6 units selected from Group A, Group B and/or Group C, or
* up to 2 of the 6 elective units from Group A, Group B and/or Group C may be selected from any current training package or accredited course provided they contribute to a valid, industry-supported vocational outcome, maintain the AQF level of this qualification and do not duplicate the outcome of another unit used to achieve the qualification.

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| **Core**  |
| CPPSSI3020 | Perform simple surveying and spatial computations |
| CPPSSI4025 | Collect spatial data using GNSS |
| CPPSSI4036 | Operate spatial software applications |
| **Elective****Group A: Surveying**  |
| CPPSSI3019 | Produce basic plans of surveys |
| CPPSSI4030 | Operate surveying equipment  |
| CPPSSI4031 | Perform surveying computations  |
| CPPSSI4032 | Plan and conduct field surveying operations |
| CPPSSI4037 | Produce computer-aided drawings |
| CPPSSI4040 | Collect spatial data using a Total Station |
| CPPSSI4041 | Set out site and building works  |
| **Group B: Spatial Information Services**  |
| CPPSSI4022 | Store and retrieve spatial data |
| CPPSSI4024 | Source and assess spatial data |
| CPPSSI4026 | Digitally enhance and process image data  |  |
| CPPSSI4034 | Maintain spatial data |  |
| CPPSSI4035 | Apply GIS software to spatial problems |
| CPPSSI4039 | Design and produce maps |
| CPPSSI5035 | Obtain and validate spatial data  |
| **Group C – General**  |
| [AHCNAR307](https://training.gov.au/Training/Details/AHCNAR307) | Read and interpret maps  |
| [BSBSUS401](https://training.gov.au/Training/Details/BSBSUS401) | Implement and monitor environmentally sustainable work practices |
| [BSBLDR403](https://training.gov.au/Training/Details/BSBLDR403) | Lead team effectiveness |
| CPPSSI3011 | Produce basic maps |
| CPPSSI4038 | Prepare and present GIS data |
| CPPSSI5060 | Develop spreadsheets for spatial data  |
| CPPSSI5061 | Survey subsurface utility information (SUI) |
| [ICTDBS416](https://training.gov.au/Training/Details/ICTDBS416) | Create basic relational databases |
| [ICTDBS506](https://training.gov.au/Training/Details/ICTDBS506) | Design databases |
| [ICTPRG431](https://training.gov.au/Training/Details/ICTPRG431) | Apply query language in relational databases |
| [ICTPRG434](https://training.gov.au/Training/Details/ICTPRG434) | Automate processes |
| [ICTPRG435](https://training.gov.au/Training/Details/ICTPRG435) | Write script for software applications |
| [ICTPRG440](https://training.gov.au/Training/Details/ICTPRG440) | Apply introductory programming skills in different languages |
| [MEM30012A](https://training.gov.au/Training/Details/MEM30012A)  | Apply mathematical techniques in a manufacturing engineering or related environment |
| [PSPLND001](https://training.gov.au/Training/Details/PSPLND001) | Investigate tenure and land use history  |

**QUALIFICATION MAPPING INFORMATION**

The CPP41720 Certificate IV in Surveying and Spatial Information Services (Surveying) supersedes and is equivalent to the CPP40216 Certificate IV in Surveying.

The CPP41720 Certificate IV in Surveying and Spatial Information Services (Spatial Information) supersedes and is equivalent to the CPP40316 Certificate IV in Spatial Information Services.

**LINKS**

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at: <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>