



Australian Government

Assessment Requirements for CPPSIS5061 Locate underground services in surveying practice

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5061A Locate underground services in surveying practice.

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

Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria, foundation skills and range of conditions of this unit. The person must also locate underground services in surveying practice for two different projects.

For each of the above projects, two of the following pieces of equipment must be used:

- electro-magnetic equipment
- ground penetrating radar
- global navigation satellite system (GNSS)
- level
- total station.

While locating underground services in the above projects, the person must:

- plan work activities to identify and manage potential constraints, including those relating to:
 - confined spaces
 - traffic control
 - work health and safety
- prepare for survey by analysing specifications and operating environment to ensure adequate equipment and resources
- plan and implement project management mechanisms to ensure work is completed within required timeframes and that project complies with specifications and standards, including Dial Before You Dig (DBYD) requirements
- plan and implement risk management and contingency measures, including two of the following tools and strategies:
 - DBYD
 - non-destructive digging
 - pipe and cable tracers, including transmitter and receiver
 - pipe cameras
 - sonde

- analyse electronic and radar data to determine subterranean assets
- communicate clearly with clients and stakeholders to clarify and report project information
- comply with industry-accepted standards for validating accuracy of data and identifying errors and discrepancies
- comply with organisational and legal requirements for:
 - completing records and documentation
 - recording, storing and filing data
 - using, checking and storing equipment
 - working safely to identify and control hazards and risks, including those relating to traffic control and confined spaces, and to use personal protective equipment (PPE)
- use one the following geophysics methods to locate and measure underground services and components:
 - electro-magnetic locating
 - ground penetrating radar acquisition
 - interpreting presented data, including DBYD and other relevant evidence
 - spraying targets on the ground.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- accuracy and precision requirements for locating underground services
- data reduction and manipulation techniques
- electro-magnetic and geophysics methods used for locating underground services
- basic concepts of algebra, geometry and trigonometry that relate to locating underground services
- industry-accepted methods for validating data to identify errors and discrepancies
- legislative, statutory and industry requirements and standards relating to work tasks
- methods for identifying targets on lines of radar
- organisational policies and procedures relating to:
 - client and stakeholder communication
 - contacting relevant utility providers
 - health and safety relating to work activities
 - reporting and documentation
 - using the equipment specified in the performance evidence
- procedures for calibrating specialised surveying equipment
- project management techniques for scheduling, measuring and monitoring work progress and planning for risks and contingencies
- relevant industry standards, including AS5488 Classification of Subsurface Utility Information (SUI).

Assessment Conditions

The following must be present and available to learners during assessment activities:

- equipment:
 - as specified in the performance evidence, including PPE
- specifications:
 - task specifications, including relevant plans and drawings
 - organisational policies, procedures and documentation relating to work health and safety
 - AS5488 Classification of Subsurface Utility Information (SUI)
- relationships with team members and supervisor:
 - working in a team.

Timeframe:

- as specified by project requirements.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

Links

Companion Volume implementation guides are found in VETNet -

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