



Australian Government

CPCLOC3006 Prepare for ground disturbance activity

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Modification History

Release	Comments
1	This unit of competency was first released in CPC Construction, Plumbing and Services Training Package Release 11.0.

Application

This unit describes the skills and knowledge required to prepare for ground disturbance activity.

It applies to those working in operational roles that impact upon utility location. They generally work under supervision and will be introduced to ground disturbance.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and utility operators. It is a requirement to check with the relevant body before applying this unit.

Licensing/Regulatory Information

A White Card must be attained when working on a construction site.

Pre-requisite unit(s)

No pre-requisite units

Competency field(s)

Ground Disturbance

Unit sector(s)

Construction

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify activity that is classified as ground disturbance.	1.1 Identify activity that entails moving, removing or penetrating the earth's surface.

	1.2 Identify activity that may cause ground disturbance issues and challenges.
2. Determine ground disturbance compliance and communication requirements.	2.1 Identify Australian standards that relate to ground disturbance activity. 2.2 Determine the utility providers' information and Duty of Care requirements. 2.3 Identify utility owner/operators' responsibilities. 2.4 Identify procedures for obtaining and managing permits, authorisations, utility plans and specific owner/operator instructions relevant to the site. 2.5 Determine effective communication requirements with utility owner/operators, supervisors, team members and the general public to coordinate activities to ensure safety and compliance.
3. Access plans for ground disturbance activity.	3.1 Assess what type of excavation or disturbance should take place. 3.2 Determine the features of the locate site and the specific ground disturbance requirements in terms of the nature of the work, area and depth. 3.3 Access relevant plan formats from the utility owner/operators or supporting organisations. 3.4 Access and interpret different quality levels (QL) when marking services in accordance with the Australian standards. 3.5 Determine what equipment will be used considering the terrain, vegetation, overhead obstructions and nearby infrastructure. 3.6 Identify work health and safety (WHS) requirements and personal protective equipment (PPE) requirements.
4. Identify the risk factors in ground disturbance activity.	4.1 Identify potential risks and hazards in the plans for the locate site by referring to past work records and available geotechnical reports. 4.2 Assess the likelihood of contact with underground facilities and the consequence of damage. 4.3 Plan risk mitigation by choosing safe work methods. 4.4 Determine safety exclusion zone requirements in line with utility owner/operator instructions.

5. Determine operational ground disturbance requirements.	5.1 Determine worksite and scope of works from plan to actual locate site. 5.2 Identify Australian standard QL marking service requirements. 5.3 Identify Australian standard utility location colour codes for the different utilities. 5.4 Identify environmental protection requirements for the task. 5.5 Identify different assets objects from plan to actual locate site. 5.6 Identify unknown or unregistered assets in the locate site area.
6. Identify documentation and reporting requirements.	6.1 Identify requirements for maintaining accurate records of ground disturbance activities in accordance with workplace procedures. 6.2 Identify procedures for reporting incidents and hazards. 6.3 Determine procedures for reporting ground disturbance activity and who to report to.

Foundation skills

Skill	Description
Numeracy	Estimates tolerances of plan details and equipment.
Oral communication	Clarifies details and reports problems and/or hazards to a supervisor or service and/or utility owner/operator.
Reading	Identifies and interprets information from at times complex workplace procedures, documentation, legislation and regulations.

Range of conditions

N/A

Assessment Requirements for CPCLOC3006 Prepare for ground disturbance activity

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- identify activity that is classified as ground disturbance and outline the following requirements associated with ground disturbance activity on two occasions for two sites with different conditions.

During the above, the candidate must identify the following aspects of ground disturbance activity:

- utility plans
- compliance with Australian standard requirements
- operational requirements
- risk factors and environmental hazards
- work health and safety (WHS) requirements
- communication processes with relevant personnel, owner/operators and the general public
- equipment use
- documentation requirements.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- ground disturbance activity, including:
 - mechanical
 - manual
 - vertical and horizontal drilling
 - non-destructive digging
 - load bearing equipment
- equipment including:
 - marking equipment
 - tools
 - locating equipment

- safety features of personal protective equipment (PPE), and when and how it should be used
- key indicators of work quality and accuracy
- utility types associated with ground disturbance hazards, including:
 - communication and data utilities
 - electricity utilities
 - water utilities
 - sewer and drainage utilities
 - gas utilities
 - petroleum and chemical pipelines
 - other specialised or local infrastructure
- key risks/hazards relating to underground utility services, including those associated with:
 - traffic
 - asbestos
 - contaminated waste
 - confined spaces
 - falls
 - locating near other works in progress
 - manual handling
 - ground stability
 - environmental hazards
- communication requirements for ground disturbance, including:
 - with owner/operators
 - general public
 - relevant personnel
- key ground disturbance standards, policies and procedures, legislation and established requirements for identifying, locating and protecting underground services, including those for:
 - compliance with Australian standards
 - Australian quality levels (QL)
 - locate site plans
 - operating and maintaining equipment
 - fault checking and checking for calibration
 - marking underground asset locations

- obtaining emergency numbers and contact details of service and utility owner/operators
- obtaining and preparing information required from utility owner/operators and supporting organisations
- damage to services and utilities
- unknown or unregistered assets.

Assessment Conditions

Assessors are responsible for ensuring that the candidate demonstrating competency has access to:

- Australian Standards
- ground disturbance standards
- appropriate site, documents, equipment and personal protective equipment (PPE) currently used in industry
- requirements of workplace policies, procedures and plans.

Mandatory Workplace Requirements

Assessment of performance evidence may be in a workplace setting or an environment that accurately represents a real workplace.

Unit Mapping Information

Previous Code and Title	Equivalence	Comments
	Newly created	This unit has been created to address a skill or task required by industry that is not covered by an existing unit of competency

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/CPC>.