

# Unit of Competency CPCPCM3025

## Install trench support

### Application

This unit specifies the skills and knowledge required to install trench support.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

### Prerequisite Unit

CPCPCM2043 Carry out WHS requirements

### Elements and Performance Criteria

1. Prepare for work.	<ul style="list-style-type: none"><li>1.1 Access, read and determine installation requirements from relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</li><li>1.2 Identify and apply workplace, work health and safety (WHS) and environmental requirements.</li><li>1.3 Plan and sequence tasks in conjunction with others involved in or affected by the work</li><li>1.4 Select and check tools and equipment, including personal protective equipment (PPE), for serviceability.</li><li>1.5 Identify the location of underground services.</li><li>1.6 Prepare work area to support efficient installation of trench support systems</li></ul>
2. Identify installation requirements.	<ul style="list-style-type: none"><li>2.1 Source equipment required for the excavation.</li><li>2.2 Identify potential hazards and determine and implement control measures.</li><li>2.3 Set out trench support installation according to relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</li><li>2.4 Consider the location of existing services and any traffic control requirements during installation.</li></ul>
3. Install trench support	<ul style="list-style-type: none"><li>3.1 Determine and transfer installation requirements for installing trench support</li><li>3.2 Install trench support according to relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements and without damage to surrounding environment, existing structures or other services.</li><li>3.3 Check installation for compliance with relevant job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements.</li></ul>
4. Clean up.	<ul style="list-style-type: none"><li>4.1 Remove trench support equipment, backfilling trench and return support equipment to storage area in accordance with state and territory legislation and workplace policies and procedures.</li><li>4.2 Clean tools and equipment, check for serviceability reporting any</li></ul>

	damage, store and secure.
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## Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Unit Mapping Information

No equivalent unit.

## Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

# Assessment Requirements for CPCPCM3025

## Install trench support

### Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- installing and removing as a minimum, two trench support systems using an approved shoring method and equipment to a minimum depth of 1.5 metres.

### Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- types of trench support systems including:
  - aluminium shoring shields
  - close timber shoring
  - drag boxes
  - fixed and/or adjustable trench boxes
  - hydraulic vertical shoring
  - lite box aluminium panels
  - powerbrace
  - slide rails
  - raking shoring
- hazards associated with excavation including:
  - soil types and the likelihood of sudden changes in soil
  - presence of ground water and water entering cracks in soil adjacent to the excavation
  - effects on ground material by exposure to the air after excavation
  - vibration due to machinery, plant, motor vehicles and machinery
  - excavation depth and shape
  - presence or proximity of other underground services
  - presence of excavation, backfill material or equipment placed near an excavation
  - excavation within public property requirements
  - excavation close to footings and buildings
- work health and safety (WHS) requirements associated with the installation of trench support systems
- how to access relevant information, including job plans and specifications, codes, Australian standards, manufacturer's specifications and jurisdictional requirements
- tools, materials and equipment used for the installing trench support.

## Assessment Conditions

Assessors must satisfy the requirements for assessors listed in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

## Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>