



Australian Government

CPCCE4001A Plan and prepare for activities on demolition sites

Release 1

CPCCDE4001A Plan and prepare for activities on demolition sites

Modification History

New unit.

This version first released with CPC08 Construction, Plumbing and Services Training Package Version 9.

Unit Descriptor

This unit of competency specifies the outcomes required to assess the size and scope of large demolition projects, including structures or installations above 15 metres, on different types of sites and identify the resources required to complete the project on time and within budget. It includes communication of project requirements to team members in preparation for demolition work to commence.

Application of the Unit

This unit of competency supports the role of demolition supervisors who identify and plan resource requirements for large demolition projects, including structures or installations above 15 metres. It involves working with others and leading a team.

Licensing/Regulatory Information

Licensing, legislative, regulatory or certification requirements apply to demolition work in different States and Territories. Candidates are advised to consult with the relevant regulatory authorities.

Pre-Requisites

Nil

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

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| 1 | Assess demolition site and scope of work. | 1.1 | Demolition plan is reviewed and site inspected to evaluate size and complexity of demolition tasks. |
| | | 1.2 | Concurrent work of other construction teams is assessed and communication channels established or confirmed. |
| | | 1.3 | Site access and egress and traffic management plan are assessed, and additional provisions or changes negotiated as required. |
| | | 1.4 | Provisions for site storage and amenities are assessed and additional provisions or changes arranged as required. |
| | | 1.5 | General site work health and safety (WHS) and environmental requirements are confirmed and applied to planning. |
| | | 1.6 | <i>Regulatory compliance requirements</i> are confirmed and applied to planning. |
| | | 1.7 | HAZMAT audits are arranged prior to demolition work start date and findings are applied to planning. |
| 2 | Schedule demolition activities. | 2.1 | Demolition plan is analysed and individual <i>demolition tasks</i> prioritised according to WHS, site and <i>resource requirements</i> . |
| | | 2.2 | Concurrent tasks are planned and sequenced to maximise efficient use of resources. |
| | | 2.3 | Resource hours required for individual demolition tasks are estimated with allowances for contingencies. |

- 2.4 Timelines for different project stages are calculated, compared to demolition plan, and adjustments are made as required.
 - 2.5 Project schedule is prepared, reviewed by relevant personnel, amended as required and processed according to workplace requirements.
- 3 Prepare safe work method statements for individual demolition activities.
 - 3.1 **Hazards and risks** associated with each demolition task **are assessed** by site inspection, discussion with relevant WHS and site personnel, and consideration of sequencing of tasks.
 - 3.2 Risk management strategies are analysed according to the hierarchy of controls in consultation with relevant WHS and site personnel.
 - 3.3 Safe work method statement (SWMS) is prepared for each demolition task with instructions for review immediately before work starts to re-assess work site conditions resulting from previous tasks.
- 4 Arrange resources for demolition activities.
 - 4.1 Resource requirements for demolition tasks are confirmed, and requirements for concurrent tasks calculated according to project schedule.
 - 4.2 Arrangements are made for delivery of required plant, tools and equipment according to project schedule.
 - 4.3 Specialised skill requirements for different project stages are determined and skills of available team members assessed to identify skill shortages.
 - 4.4 Recruitment of additional team members with required skills is conducted and completed within required timeframe for prompt start to work.
 - 4.5 Team members are allocated to tasks and human resource requirements for all project stages are checked and confirmed as complete.

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| 5 | Conduct site induction and team briefing for demolition project. | 5.1 | Site tour and general site induction regarding safety and environmental requirements are arranged or conducted according to project and workplace requirements. |
| | | 5.2 | Details of task allocations and scheduling are explained and discussed, and team understanding of work requirements is confirmed. |
| | | 5.3 | Concurrent work of other construction teams, and interactions and communication channels, are explained and understanding of team members is confirmed. |
| | | 5.4 | Provisions for dealing with risks, hazards and contingencies are explained, and understanding of team members is confirmed. |
| | | 5.5 | Team members are encouraged to ask questions for clarification at all stages of the work and to provide suggestions for improvements in processes. |

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

- learning skills to:
 - assimilate past experience to develop and implement solutions to problems
 - respond to change, such as differences in quality standards required by clients
- numeracy skills to:
 - calculate resource requirements
 - schedule tasks
- oral communication skills to:
 - conduct team briefings and direct staff
 - develop and maintain relationships with clients and other relevant personnel
- reading skills to interpret contractual documentation
- writing skills to prepare safe work method statements

Required knowledge

- contract management strategies
- customer service strategies
- demolition procedures, techniques and safety requirements
- demolition site inspection procedures
- hazards and risks existing or arising on demolition sites and relevant risk management strategies
- legislation, regulations, codes and standards relating to different stages of the demolition process
- plant, tools and equipment required for demolition tasks, including:
 - permits and licences required
 - safe operating procedures
- project management strategies
- quality management strategies
- team leadership strategies

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment This unit of competency could be assessed by reviewing the planning and preparation for individual demolition activities in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques fully replicate construction workplace conditions, materials, activities, responsibilities and procedures.

Critical aspects for assessment and evidence required to demonstrate competency in this unit A person should demonstrate the ability to plan and prepare for individual demolition tasks on two different large demolition projects, one of which must involve structures or installations above 15 metres, including:

- interpreting and applying to planning:
 - contractual requirements
 - relevant legislation, regulations, codes and standards, including WHS, environmental and quality requirements
- inspecting demolition sites for existing hazards and risks and applying relevant risk management strategies to planning
- planning demolition tasks to ensure:
 - efficient use of resources
 - timely completion of tasks to required standards
- preparing safe work method statements for different demolition tasks in consultation with relevant personnel
- briefing team members to ensure understanding of requirements.

Context of and specific resources for assessment Assessment of this unit:

- must be in the context of the work environment
- must meet relevant compliance requirements.

Resource implications for assessment include:

- an induction procedure
- realistic tasks covering the mandatory task requirements
- support materials appropriate to activity, including:
 - access to industry information relating to legislation, regulations, codes and standards
 - contractual information and work specifications.

Method of assessment Assessment for this unit must verify the practical application of the required skills and knowledge, using a combination of the following methods:

- direct observation of tasks in real work conditions
- questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- review of relevant authenticated documentation from third parties, such as existing managers or specialist training staff.

Guidance information for assessment

This unit could be assessed on its own or in combination with other units relevant to the job function.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

Assessment processes and techniques should, as far as is practical, take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Regulatory compliance requirements must include:

- permits and licences for different tasks
- noise limitations
- lighting requirements
- traffic movement requirements.

Demolition tasks must include:

- manual demolition of:
 - floors
 - frame
 - roofs
 - structural members
 - walls
- mechanical demolition, including work on suspended floors
 - induced collapse
 - tasks involving special conditions or requirements, such as:
 - arched roofs, domes, masonry and brick arches
 - basements, cellars and vaults

- chimneys and spires
- facade retention
- lift shafts
- pre- and post-tensioned concrete
- pre-cast concrete panels
- pylons and masts
- storage tanks and pipelines
- structurally unsound buildings or structures.

Resource requirements

must include:

- equipment
- human resources, including personnel with:
 - specialised skills
 - licences to operate plant and equipment
- materials
- plant
- tools.

Assessment of hazards and risks must include:

- adjacent buildings
- debris
- exposure to:
 - dust
 - fumes
 - noise
 - ultraviolet (UV) rays
 - vibrations
- evidence of undocumented damage, such as by:
 - fire
 - termites
- fall hazards
- fragile roofing
- hazardous materials
- lifting and handling of heavy materials and components
- loading of demolition materials and plant on suspended floors
- penetrations
- people on site
- pits
- plant and equipment
- services, including:
 - electricity
 - gas
 - telecommunications
 - water

- which may be:
 - overhead
 - underground
 - undocumented
 - within elements of the structure
- storage or placement of demolition materials, plant, tools and equipment
- structural integrity of the building to be demolished at all stages of the project, such as after partial demolition of:
 - roof
 - walls
- weather conditions, especially wind speed.

Unit Sector(s)

Demolition

Custom Content Section

Not applicable.