



Australian Government

CPCCE4005 Apply structural principles to the planning of the demolition of a structure

Release: 2

CPCCODE4005 Apply structural principles to the planning of the demolition of a structure

Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
New unit.

Application

This unit of competency specifies the skills and knowledge required to apply structural principles when planning demolition, using conventional methods, of structures.

This unit of competency supports the needs of site managers, forepersons and other managers in the building and construction or demolition industry responsible for effecting a demolition plan.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of unit *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Licensing, legislative, regulatory or certification requirements apply to demolition work in different states and territories. Candidates are advised to consult with the relevant regulatory authority.

Pre-requisite Unit

Nil.

Unit Sector

Demolition.

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1 Analyse the structural integrity of demolition	1.1 Analyse integrity of structure from project plans and specifications, building standards and codes.

project.	1.2	Conduct pre-commencement site inspection to confirm analysis.
	1.3	Assess project for compliance with workplace safety and environmental requirements.
	1.4	Confirm analysis with relevant industry professionals.
2 Apply structural principles to the planning of demolition project.	2.1	Identify main structural principles that apply to the intended demolition.
	2.2	In conjunction with related industry professionals, confirm the structural performance characteristics of slabs, beams, columns and retaining walls and apply these to the planning of the demolition project.
	2.3	Confirm properties and behaviours of structural components and then possible reactions to demolition, using standard industry formulas and performance comparisons.
3 Evaluate worksite prior to demolition.	3.1	Implement processes to analyse stability of soils and capacity of the site to support the demolition loads.
	3.2	Establish processes for demolishing wall systems and wall cladding systems in compliance with relevant Australian Standards and codes.
	3.3	Evaluate structural integrity of the roof and roof cladding system in preparation for demolition.
	3.4	Complete relevant documentation in accordance with workplace requirements.

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 volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>