



Australian Government

RIICTC305D Construct portals

Release: 2

RIICTC305D Construct portals

Modification History

Release	Comment
1	This unit replaces RIICTC305A Construct portals
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to construct portals in Civil Construction.

This unit is appropriate for those working in operational roles. Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and Industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare to construct portals	1.1 Access, interpret and apply construct portals documentation and ensure the work activity is compliant 1.2 Obtain, interpret, clarify and confirm work instructions before proceeding 1.3 Identify, obtain and implement the traffic signage requirements 1.4 Select and check for faults plant, tools and equipment to carry out tasks 1.5 Select and wear personal protective equipment appropriate for work activities 1.6 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
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	1.7 Identify preliminary ground work requirements to support portal surrounds prior to excavation 1.8 Identify, address and report environmental issues, potential hazards and risks
2. Excavate portal shape	2.1 Determine location, alignment and direction portals from details contained in job drawings and specifications 2.2 Identify and apply method of construction for portal 2.3 Prepare material for the construction process of the selected portals according to design plans and specifications 2.4 Complete excavation to plan 2.5 Control dust and noise suppression in accordance with EPA and WHS requirements
3. Support excavation and form portal surrounds	3.1 Install sheeting and/or first set to specifications 3.2 Excavate and trim battering to design and drainage specifications
4. Install ground support	4.1 Identify ground support from project drawings and specifications 4.2 Construct base to detail drawings and specifications 4.3 Install ground support and shotcrete/concrete 4.4 Place drainage and seepage provisions
5. Conduct housekeeping activities	5.1 Clear work area and dispose of or recycle materials 5.2 Clean, check, maintain and store plant, tools and equipment 5.3 Carry out housekeeping activities

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIICTC305A Construct portals

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIICTC305D Construct portals

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant legislation documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of constructing portals including:
 - applying equipment/manual handling techniques
 - selecting and using relevant tools and equipment
 - identifying, reporting and recording hazards and risks
 - installation of portals
- works effectively with others to undertake and complete the constructing of portals that meets all of the required outcomes including:
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
 - using a range of communication techniques and systems such as signage to advise others of work activity and exclusion zone
- demonstrates completion of constructing portals that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - the construction of a portal using an excavation ground support system

Knowledge Evidence

The candidate must demonstrate knowledge in construct portals through:

- basic principles of soil technology for civil works

- types and purposes of portals
- principles of ground support
- types, functions, characteristics and limitations of excavation ground support systems
- types, functions, characteristics and limitations of finishing ground support systems
- ground support systems installation techniques
- construction principles
- equipment types, characteristics, technical capabilities and limitations
- project quality requirements
- civil construction terminology
- site isolation and traffic control responsibilities and authorities
- safety data sheets and materials handling methods
- prepared for fire/accident/emergency

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal	1	1 Year

Mining, Extractive (Quarrying) and Civil Construction	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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