

RIICRC206A Install pre-cast concrete crash barriers

Release: 1



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Modification History

Not applicable.

Unit Descriptor

This unit covers the installation of pre-cast concrete crash barriers in the civil construction industry. It includes planning and preparing, erecting concrete crash barriers, and cleaning up. 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.

Application of the Unit

This unit is appropriate for those working in an operational role at worksites within:

Civil construction

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

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

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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare	1.1. Access, interpret and apply <i>compliance</i> documentation relevant to the work activity
	1.2. Identify and apply relevant drawings and job specifications to all work activities
	1.3. Obtain and confirm <i>safety requirements</i> from the site safety plan and organisational policies and procedures, and apply to the allotted task
	1.4. Identify, obtain and implement <i>signage</i> requirements from the project <i>traffic</i> management plan
	1.5. Select plant, <i>tools and equipment</i> to carry out tasks consistent with the requirements of the job, check for serviceability and rectify or report any faults
	1.6. Identify <i>environmental protection</i> requirements from the project environmental management plan, and confirm and apply to the allotted task
2. Erect concrete crash barriers	2.1. Set out position of <i>concrete crash barriers</i> according to job drawings and specifications
	2.2.Erect and/or install barriers in the correct location
	2.3. Join barriers according to manufacturer's specifications
	2.4. Seal and finish barriers against weather
3. Clean up	3.1. Clear work area and dispose of or recycle <i>materials</i> in accordance with project environmental management plan
	3.2. Store or stack unused materials
	3.3. Clean, check, maintain and store plant, tools and equipment

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Required Skills and Knowledge

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

Required skills

Specific skills are required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes the ability to carry out the following, as required to install pre-cast concrete crash barriers:

- apply legislative, organisation and site requirements and procedures for installing pre-cast concrete crash barriers
- interpret engineering drawings
- select and use plant, tools and equipment safely
- identify and report on hazards related to the worksite and work activity
- organise work tasks

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes knowledge of the following, as required to install pre-cast concrete crash barriers:

- types, characteristics and installation/ maintenance techniques of roadside and kerb fixtures
- civil construction terminology
- types, characteristics and installation techniques of concrete crash barriers
- site and equipment safety requirements
- site isolation and traffic control responsibilities and authorities
- plant/crane capabilities and limitations
- safe lifting techniques
- project quality requirements
- JSAs/safe work method statement

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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.

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Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following:
	knowledge of the requirements, procedures and instructions for installing pre-cast concrete crash barriers
	implementation of requirements, procedures and techniques for the safe, effective and efficient completion of the installation of pre-cast concrete crash barriers
	working with others to undertake and complete the installation of pre-cast concrete crash barriers in a way that meets all of the required outcomes
	consistent timely completion of the installation of pre-cast concrete crash barriers that safely, effectively and efficiently meets the required outcomes
	as an individual or as a member of a two-three person team, undertake and complete the installation of a minimum of 50 metres of pre-cast concrete road barriers to specification
Context of and specific resources for assessment	This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills.
	Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites

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	 may differ due to the site circumstances. The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. Customisation of assessment and delivery environment to sensitively accommodate cultural diversity. Aboriginal people and other people from a non English speaking background may have second language issues. Where applicable, physical resources should include equipment modified for people with disabilities. Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods:
	 written and/or oral assessment of the candidate's required knowledge observed, documented and/or first hand testimonial evidence of the candidate's: implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes consistent achievement of required outcomes first hand testimonial evidence of the candidate's:
	working with others to undertake and complete the installation of pre-cast concrete crash barriers
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

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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.

Relevant compliance documentation may include:

- legislative, organisational and site requirements and procedures
- manufacturer's guidelines and specifications
- Australian standards
- Employment and workplace relations legislation
- Equal Employment Opportunity and Disability Discrimination legislation

Safety requirements may include:

- OHS requirements in accordance with state or territory legislation and regulations, organisational safety policies and procedures, and project safety plan, including protective clothing and equipment, use of tools and equipment, workplace environment and safety, handling of materials, use of fire fighting equipment, use of First Aid equipment, hazard control and hazardous materials and substances
- safe operating procedures including recognising and preventing hazards associated with high voltage power lines, uneven/unstable terrain, trees, overhead service lines, bridges, surrounding buildings, obstructions, structures, facilities, dangerous materials, recently filled trenches, other machines, personnel, traffic control, working at heights, working in proximity to others, worksite visitors and the public
- safe parking practices including ensuring access ways are clear, equipment/machinery is away from overhangs and refuelling sites, safe distances are kept from excavations, and areas secured from unauthorised access or movement
- recognising hazards and risks including uneven/unstable terrain, trees, fires, overhead and underground services, bridges, buildings, excavations, traffic, embankments, cuttings, structures and hazardous materials
- emergency procedures related to equipment

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	operation including emergency shutdown and stopping, extinguishing equipment fires, organisational first aid requirements and evacuation
Signage may include:	escort vehicle
	 highway traffic signs
	site safety signage
	• temporary signage for the benefit of motorists
	and pedestrians
	• barricades
	traffic conditions signage
Traffic may include:	 congested urban environments
	low traffic rural areas
	off-road un-trafficked areas
	• buildings
	• parking sites
	pedestrian areas
Tools and equipment may	crow bars
include:	• shovels
	• spanners
	• hammers
	• screwdrivers
	• concrete mixers
	lifting equipment
	• cranes
	mechanical plant
Environmental requirements	• organisational/project environmental
may include:	management plan
	waste management
	water quality protection
	• noise
	• vibration
	• dust
	clean-up management
Concrete crash barriers are to	• the erection of pre-cast concrete crash barrier
include:	units
	block outs for the provision of services
Materials may include:	• concrete
	brackets and fastenings
	• bolts
	concrete crash barriers

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Unit Sector(s)

Road and Pavements Construction and Maintenance (General)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.

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