

ICTCBL2131A Install an above ground equipment enclosure

Release: 1



ICTCBL2131A Install an above ground equipment enclosure

Modification History

Not Applicable

Approved Page 2 of 11

Unit Descriptor

Unit descriptor

This unit describes the performance outcomes, skills and knowledge required to install an above ground equipment enclosure for cabling provisioning. It involves planning, building and earthing an enclosure.

Licensing, legislative, regulatory and certification requirements apply to working at heights. If an elevated work platform (EWP) is required, verify state or territory law requirements for a licence to operate an EWP. Users should confirm requirements with the relevant federal, state or territory authority.

If working at heights, achievement of the unit 'CPCPCM2015A Work safely on roofs' from the CPC08 Construction and Plumbing Services Integrated framework training Package fulfils this requirement.

Application of the Unit

Application of the unit

Technical staff whose work involves installing an above ground equipment enclosure apply the skills and knowledge in this unit.

A relevant job role is civil construction worker whose work includes installation of enclosures including pillars, cabinets, remote integrated multiplexers (RIMs) and mobile equipment enclosures for new installations or network upgrades.

Licensing/Regulatory Information

Refer to Unit Descriptor

Approved Page 3 of 11

Pre-Requisites

Prerequisite units	

Employability Skills Information

Employability skills	This unit contains employability skills.
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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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Approved Page 4 of 11

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA	
Prepare to construct and install enclosure	1.1. Obtain construction plan from <i>appropriate</i> personnel to scope the work and arrange for site access	
	1.2. Notify appropriate personnel of identified <i>safety hazards</i> and <i>other services</i> at the worksite	
	1.3. Obtain <i>plant</i> , <i>tools</i> , <i>safety equipment</i> and material to perform tasks safely and efficiently	
	1.4. Determine the location and type of <i>above ground enclosure</i> specified in the construction plan that is required for the project	
2. Build enclosure	2.1. Use tools according to enterprise guidelines and occupational health and safety (<i>OHS</i>) <i>regulations</i>	
	2.2. Construct footings or foundations to the construction design specifications	
	2.3. Construct enclosure to specifications given in the construction design	
	2.4. Connect enclosure to earth according to construction plan and industry practice	
3. Complete project	3.1. Complete reports according to enterprise policy and record alterations to plans using appropriate symbols	
	3.2. Recover obsolete materials and equipment and return to appropriate point for disposal	
	3.3. Restore site according to the requirements of enterprise or approving authority and to customer satisfaction	
	3.4. Notify appropriate personnel of job completion and obtain sign off	

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- communication skills to liaise with internal and external personnel on technical and operational matters
- literacy skills to interpret plans and specifications

Approved Page 5 of 11

REQUIRED SKILLS AND KNOWLEDGE

- numeracy skills to take and analyse measurements for construction work
- planning and organisational skills to organise and maintain equipment
- problem solving skills to solve logistics problems on site
- safety awareness skills to:
 - apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities
 - select and use required personal protective equipment conforming to industry and OHS standards
 - work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- task management skills to work systematically with required attention to detail
- technical skills to:
 - construct footings and foundations
 - construct earthing enclosures
 - use hand and power tools in civil construction work

Required knowledge

- civil construction:
 - construction plant, tools and equipment operation
 - enclosure construction methods
 - footings and foundations
 - plans
- legislation, codes of practice and other formal agreements that impact on the work activity
- specific OHS requirements relating to the activity and site conditions
- typical issues and challenges that occur on site

Approved Page 6 of 11

Evidence Guide

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.

Guidelines for the Training Package.		
Overview of assessment		
Critical aspects for assessment and evidence required to demonstrate competency in this unit	 Evidence of the ability to: prepare to install an enclosure using construction plans with necessary tools and equipment construct and connect an enclosure according to plans, specifications and OHS requirements complete reports and document alterations to plans. 	
Context of, and specific resources for assessment	Assessment must ensure: • sites where enclosure construction and connection may be conducted • use of construction equipment currently used in industry • relevant regulatory and equipment documentation that impact on construction.	
Method of assessment	A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: review of an enclosure constructed by the candidate review of an oral and written report with completed documentation, including reports and records of alterations direct observation of the candidate installing an above ground equipment enclosure oral or written questioning to assess required knowledge.	
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example: • ICTCBL2133A Construct underground telecommunications infrastructure. Aboriginal people and other people from a non-English speaking background may have second language issues.	

Approved Page 7 of 11

EVIDENCE GUIDE	
	Access must be provided to appropriate learning and assessment support when required.
	Assessment processes and techniques must be culturally appropriate, and appropriate to the oral communication skill level, and language and literacy capacity of the candidate and the work being performed.
	In all cases where practical assessment is used it will be combined with targeted questioning to assess required knowledge. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency.
	Where applicable, physical resources should include equipment modified for people with special needs.

Range Statement

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.

Appropriate personnel may include:	•	customer representative project manager site manager.
Safety hazards may refer to:	•	contact with remote power feed electrical supply and areas of earth potential rise (EPR) that require mandatory separation from cable work hazardous conduit as in conduit colours according to AS 1345:1995 associated with a hazardous service

Approved Page 8 of 11

RANGE STATEMENT	
	unstable ground.
Other services may include:	fire servicesgas and water mainshigh voltage (HV) power.
Plant, tools, safety equipment may include:	 equipment: flashing lights gas and other hazard detection equipment safety barriers trench guards warning signs and tapes plant: back hoe bobcat excavator trencher safety equipment: personal protective clothing: earmuffs gloves head protection kneepads masks protective suits safety boots safety glasses tools: concrete tool diggers jack-hammers power tools: cutters drills saws shovels.
Above ground enclosure may include:	conduit and pipeenclosure constructed of:fibreglassmetal

Approved Page 9 of 11

RANGE STATEMENT	
	plasticfibre hubhybrid fibre coaxial (HFC) cabinet.
OHS regulations may include:	 appropriate licences: crane EWP forklift winch Australian Communications Industry Forum (ACIF) standards and codes AS Communications Cabling Manual (CCM) Volume 1 AS/NZS 3000:2007 AS/NZS 3080:2003 AS/NZS 3084:2003 AS/NZS 3085.1:2004 AS/NZS IEC 61935.1:2006 AS/NZS IEC 61935.2:2006 AS/NZS ISO/IEC 14763.3:2007 AS/NZS ISO/IEC 15018:2005 AS/NZS ISO/IEC 24702:2007 cabling security codes and regulations Environmental Protection Acts OHS road and traffic control legislation and codes technical standards AS/ACIF S008:2006 and AS/ACIF S009:2006.

Unit Sector(s)

Unit sector	Telecommunications	
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Co-requisite units

Co-requisite units	

Approved Page 10 of 11

Co-requisite units		

Competency field

Competency field	Cabling
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Approved Page 11 of 11