



Australian Government

Department of Education, Employment and Workplace Relations

ICTPMG2130A Prepare site for support installation

Release: 1

ICTPMG2130A Prepare site for support installation

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to prepare a site for support installation. It may involve preparation for aerial or underground cable or for erection of radio towers or above ground or underground equipment enclosures. Licensing, legislative, regulatory and certification requirements apply to working at heights, confined spaces, crane operation, rigging, driving and other operations involved in this unit. Users should confirm requirements with the relevant federal, state or territory authority.
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Application of the Unit

Application of the unit	Technical staff whose work involves civil construction of telecommunications sites apply the skills and knowledge in this unit. A relevant job role is civil construction worker whose work includes site preparation.
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Licensing/Regulatory Information

Refer to Unit Descriptor

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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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for installation	1.1. Confirm the location of proposed installation is according to the installation plan and relevant legislation, codes, regulations and standards 1.2. Recognise and report hazards 1.3. Obtain approvals and authorisations for work and carry at all times during works 1.4. Inform land owner or tenant of imminent works 1.5. Locate adjoining services according to enterprise guidelines and occupational health and safety (OHS) practices 1.6. Clear site of vegetation and debris according to work specifications and any relevant approvals
2. Excavate site	2.1. Place pegs for proposed installation according to enterprise guidelines and site plans 2.2. Excavate using the appropriate equipment for the size of excavation, the location of the works, and according to enterprise guidelines 2.3. Conduct levelling of the site within the tolerance specified in the installation plan 2.4. Employ OHS practices and personal protective equipment , where appropriate, in the manner intended by the manufacturer
3. Complete administration	3.1. Note approved alterations on the original plan and design using the appropriate symbols, and return plan to originator 3.2. Complete and sign reports according to enterprise policy where required 3.3. Inform land owner or tenant of construction completion and the expected next steps according to enterprise guidelines

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

REQUIRED SKILLS AND KNOWLEDGE

- communication skills to liaise with internal and external personnel on technical and operational matters
- literacy skills to read and interpret technical documentation, such as equipment manuals and specifications
- numeracy skills to take and analyse measurements
- planning and organisational skills to organise and maintain equipment
- problem solving skills to solve equipment and logistics problems
- task management skills to work systematically with required attention to detail and adherence to all safety requirements
- technical skills to:
 - interpret drawings related to preparing a site for an installation
 - use hand, power tools and excavation equipment

Required knowledge

- construction methods and performance requirements
- features and operating requirements of construction equipment
- legislation, codes of practice and other formal agreements that impact on the work activity
- manufacturer requirements for safe operation of equipment
- specific OHS requirements relating to the activity and site conditions
- typical issues and challenges that occur on site

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.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence of the ability to:

- prepare and clear site for installation
- excavate site
- complete reports and record variations to plans.

Context of and specific resources for assessment

Assessments must ensure:

- access to sites on which installations can be performed
- use of equipment and personal protective equipment currently used in industry
- access to relevant regulatory, organisational and equipment documentation that impact on installation activities

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 a site project completed by the candidate
- review of an oral and written report with completed documentation
- direct observation of the candidate preparing a site for a support installation
- 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:

- ICTPMG2173A Plan, organise and undertake work activities.

Aboriginal people and other people from a non-English speaking background may have second language issues.

Access must be provided to appropriate learning and

EVIDENCE GUIDE

	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.
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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.

<i>Installation plan</i> may include:	• local environment requirements to ensure that reinstatement may be completed appropriately • safe working practices and personal protective equipment where appropriate in the manner intended by the manufacturer and stipulated by the enterprise • small or short term job, part of a larger project • tools and equipment are used according to guidelines.
<i>Relevant legislation, codes, regulations and standards</i> may	• appropriate licences: • backhoe operator

RANGE STATEMENT

include:

- borer
- chainsaw operation
- crane
- crane chaser
- crane operator
- dogman
- drivers
- elevated work platform (EWP)
- forklift
- heavy vehicle
- machinery operation
- rigger
- winch
- AS Communications Cabling Manual (CCM) Volume 1
- Australian Communications Industry Forum (ACIF) standards and codes
- Australian Communications and Media Authority (ACMA) technical standards
- Australian building codes and regulations
- Australian standards
- enterprise standards
- Environmental Protection Acts
- fire regulations
- heritage legislation
- industrial relations agreements, including awards and enterprise agreements
- international standards
- local government
- manufacturer's enterprise operating policy and procedures
- OHS
- other services and utilities codes of practice and standards:
 - electricity
 - gas
 - water
- Privacy Act
- Spectrum Management Authority
- statutory requirements

RANGE STATEMENT	
	• Trade Practices Act • traditional land owners.
Hazards may include:	• access points that may contain: • hazardous light (non-visible laser) • radio frequency (RF) emission • contact with remote power feed • electrical supply and areas of earth potential rise (EPR) that require mandatory separation from communications cable • hazardous conduit as according to AS 1345:1995 conduit colours associated with a hazardous service • unsafe support structures: • condemned poles • visible signs of decay or stress • unsafe weather: • heavy rains • high winds • thunderstorms • severe heat or cold.
Approvals may include:	• environmental protection • land clearances • noise pollution • plant and equipment installation • site permits • waste production and removal.
OHS practices may include:	• antenna principles for working safely on telecommunications radio structures • devices to support construction personnel at heights: • elevated personnel vehicles • non-metallic ladders • platforms • external factors affecting works: • concentration of other services • terrain • weather conditions • fall arrest: • fixed

RANGE STATEMENT	
	• temporary • precautions for unsafe weather conditions to undertake works: • heavy rains • high winds • severe cold • severe heat • thunderstorms • preparing for work at a telecommunications site with potential electromagnetic radiation (EMR) hazards • safety issues in roof work: • fall arrest • fall guarding • traffic management • verifying and maintaining the EMR hazard management plan against an on site situation.
Personal protective equipment may include:	• earmuffs • eye protection • gloves: • plastic • rubber • leather • gumboots • hard hats • overalls • personal reflecting jackets • riggers' gloves • safety boots • vests.
Reports may include:	• communication with affected parties: • customer • neighbour • occupants • other property owners • utility providers • computer-based documentation • electronic communication • enterprise procedures

RANGE STATEMENT

	• manuals.
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Unit Sector(s)

Unit sector	Telecommunications
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Co-requisite units

Co-requisite units		

Competency field

Competency field	Project management
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