Australian Government

Department of Education, Employment and Workplace Relations

ICTCMP2022A Organise and monitor cabling to ensure compliance with regulatory and industry standards

Release: 1

ISC INDUSTRY SKILLS COUNCILS

Creating Australia's Future

ICTCMP2022A Organise and monitor cabling to ensure compliance with regulatory and industry standards

Modification History

Not Applicable

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Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to organise and monitor teams undertaking cabling work on all cable types, and to ensure compliance with regulatory and industry standards.
	Assessment by a TITAB registered assessor is recommended.
	The six unit competency set ICTCBL2005A, ICTCBL2006A, ICTCBL2008A, ICTCBL2012A, ICTCBL2017A and ICTCMP2022A, that meets the Australian Communications and Media Authority's (ACMA) requirements for Cabling Provider Registration (CPR), is generally used as part of a more specialised customer cabling qualification. This set is usually regarded as more suitable for new entrants where limited industry experience has been obtained and forms the major part of specialised qualifications, such as ICT20310 Certificate II in Telecommunications Cabling. When these six units are selected as a set within state and territory funding approved programs, the two benchmark CPR units (ICTCBL2136A and ICTCBL2137A) are not required.
	All customer cabling work in the telecommunications, fire, security and data industries must be performed by a registered cabler. All cablers are required to register with an ACMA accredited registrar.

Application of the Unit

Application of the unit	Technical staff apply the skills and knowledge in this unit for supervising teams within a customer premises and ensuring compliance with ACMA and industry standards. They may make use of formal documentation, such as accurate completion of a telecommunications cabling advice (TCA) form (TCA1 form), test routines and databases.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	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.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Organise cabling work activity	1.1. Arrange access to the site according to required procedure 1.2. Make worksite safe by identifying existing and potential *hazards* 1.3. Review *site plans and documentation* 1.4. Organise supply of *cable*, equipment, tools and materials in line with manufacturer's specifications 1.5. *Schedule and allocate work* 1.6. Establish communication protocols and processes
2. Monitor work activity	2.1. *Manage remote power feed* following occupational health and safety (*OHS*) *and environmental requirements* 2.2. Monitor work activity to ensure it meets site specifications, and *enterprise requirements*, and *relevant legislation*, *codes*, *regulations and standards* 2.3. Reallocate work as needed
3. Complete records and obtain sign off	3.1. Complete required records 3.2. Ensure installation waste and debris is removed from worksite and disposed of according to environmental requirements to maintain safe worksite conditions 3.3. Ensure site is reinstated according to customer and company requirements 3.4. Notify customer 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 technical documentation, such as:
  • equipment manuals and specifications
  • ACMA Competency Requirements for Telecommunications Cabling Provider Rules 2000

REQUIRED SKILLS AND KNOWLEDGE

- 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:
    - perform fault clearance
    - use diagnostic equipment
    - use hand and power tools

Required knowledge

- ACMA Competency Requirements for Telecommunications Cabling Provider Rules 2000, legislation, codes of practice and other formal agreements that impact on the work activity
- basic telephony
- cable installations
- features and operating requirements of test equipment
- information required to operate equipment according to a test specification
- manufacturer's requirements for safe operation of equipment
- specific OHS requirements relating to the activity and site conditions
- test methods and performance requirements
- 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: • organise, schedule and communicate work • monitor work activity and reallocate as required to meet specifications, OHS and ensure compliance with relevant regulations and standards.
Context of, and specific resources for assessment	Assessment must ensure: • sites where monitoring may be conducted • use of tools, materials and equipment currently used in industry • relevant regulatory and equipment documentation that impact on work activities.
Methods 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 project supervised by the candidate • review of an oral and written report with completed documentation, such as TCA1 form • direct observation of the candidate organising and monitoring a cabling project.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example: • ICTCBL2005A Install customer cable support systems • ICTCBL2006A Place and secure customer cable • ICTCBL2008A Terminate metallic conductor customer cable • ICTCBL2012A Install functional and protective telecommunications earthing system • ICTCBL2017A Alter services to existing cable system. Aboriginal people and other people from a non-English

EVIDENCE GUIDE	
	speaking background may have second language issues.
	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.	
Hazards may include:	• building debris • earth potential rise (EPR): • event at a site, such as an electrical distribution substation, may expose telecommunications personnel, users or plant to hazardous voltages • glass fibre • live power lines • manual handling • mud and water • natural gas and other gas build up • needle stick injury

RANGE STATEMENT	
	• optical fibre cable may contain hazardous light • radio frequency (RF) equipment emitting radiation • remote power feeding services which operate at above telecommunications network voltage (TNV) • vermin.

RANGE STATEMENT	

Site plans and documentation may include:	• information on:
	   • access location
	   • cable coding system and identifiers
	   • cable plan.

Cable may include:	• aerial
	• Category 5, 6, 6A, 7, or 7A
	• copper twisted pair including:
	   • aerial
	   • external
	   • indoor
	   • underground cabling
	• underground
	• unshielded twisted pairs (UTP).

Schedule and allocate work may refer to:	• competency and capacity to complete work determined from:
	   • observations
	   • discussion
	   • training records
	   • demonstrations
	• estimates for time duration of work based on:
	   • an assessment of condition
	   • past experience with similar methods and sites.

Manage Remote Power Feed may relate to:	• telecommunications services which operate at above TNV
	• need for identifying:
	   • risks posed by contact with remote power feeding services
	   • remote power feeding services in a range of commonly encountered circumstances inside customer premises.

OHS and environmental requirements may relate to:	• identifying other services, including power and gas
	• need for decommissioning and isolating worksite and lines prior to commencement
	• personal protective clothing:
	   • earmuffs
	   • gloves:
	      • plastic

RANGE STATEMENT

	- rubber - leather - head protection - kneepads - masks - protective suits - safety boots - safety glasses - safety harness - safety line - safe working practices, such as the safe use and handling of: - asbestos - chemicals - materials - tools and equipment - work platforms - safety equipment: - flashing lights - gas and other hazard detection equipment - safety barriers - trench guards - warning signs and tapes - witches hats - special access requirements - suitable light and ventilation - environmental considerations: - clean-up protection - stormwater protection - waste management.

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RANGE STATEMENT	
Enterprise requirements may refer to:	- budgets defining discretionary levels in relation to expenditure areas - specifications and other project documentation including: - building plans and area charts - client correspondence - copy of contract documentation - derived schedules or checklists.
Relevant legislation, *codes*, *regulations and standards* includes:	- Australian Communications Industry Forum (ACIF) standards and codes - ACMA technical standards - 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 - Australian building codes and regulations - cabling security codes and regulations - enterprise operating policy and procedures - OHS - technical standards AS/ACIF S008:2006 and AS/ACIF S009:2006.

Unit Sector(s)

Unit sector	Telecommunications

Co-requisite units

Co-requisite units	

Co-requisite units		

Competency field

Competency field	Compliance