



Australian Government

ICTCBL4004B Schedule and supply cabling installation

Release 1

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Modification History

Release	Comments
Release 2	This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 3.0</i>. References to other units updated. Outcomes deemed equivalent.
Release 1	This version first released with <i>ICT10 Integrated Telecommunications Training Package Version 1.0</i>.

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to schedule and supply cabling installation.

Cable used must be compliant with appropriate Australian Communications and Media Authority (ACMA) technical standard requirements for underground, aerial, Category 5, 6, 6A, 7 or 7A, or unshielded twisted pairs (UTP). Cabling products must be ACMA-approved.

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

Technical staff who schedule and supply cabling installations apply the skills and knowledge in this unit. Appropriate ACMA, Australian standards and Australian Communications Industry Forum (ACIF) technical standards apply to this unit.

This unit applies to indoor and outdoor installation within a customer premises. It may be applied to domestic, commercial or industrial installations. Communications applications include digital and analog, telephony, data, video, digital broadcasting, computer networks, local area networks (LAN), wide area networks (WAN) and multimedia.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Element	Performance Criteria
<i>Elements describe the essential outcomes of a unit of competency.</i>	<i>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.</i>

Elements and Performance Criteria

1. Schedule supply and installation events	1.1 Confirm cabling installation requirements and project specifications from the customer 1.2 Prepare work schedules and installation plans identifying key dates and milestones 1.3 Obtain information on location of other services from relevant authorities 1.4 Prepare a schedule of material supplies to be available when required for installation
2. Monitor and adjust supply requirements	2.1 Adjust labour load variations to meet installation needs to enable completion within budget and timeframes 2.2 Prepare a quote and confirm additional work requests with customer prior to commencement 2.3 Monitor work progress against project schedules and budgets 2.4 Monitor compliance regularly with customer specification, licensing, relevant legislation, codes, regulations and standards 2.5 Prepare a report detailing project scheduling and supply requirements

Required Skills and Knowledge

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

Required skills

- analytical skills to read and interpret drawings related to:
 - cable coding system and identifiers
 - cable layouts
 - frame locations
 - outlet location
- 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
- numeracy skills to:
 - take and analyse measurements
 - prepare quotes
- planning and organisational skills to organise and maintain equipment
- problem solving skills to solve equipment and logistics problems
- research skills to source labour and material supplies
- task management skills to work systematically with required attention to detail and adherence to all safety requirements
- technical skills to schedule and monitor work.
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Required knowledge

- ACMA Competency Requirements for Telecommunications Cabling Provider Rules 2000
- information required to operate equipment according to a test specification
- knowledge of safety standards and practice to:
 - apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities
 - select and use occupational health and safety (OHS) standards
 - specific OHS requirements relating to the activity and site conditions
 - work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- legislation, codes of practice and other formal agreements that impact on the work activity
- manufacturer's requirements for safe operation of equipment
- typical issues and challenges that occur in scheduling and on site.

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: - plan and provide appropriately skilled labour, volume and type of material to meet key dates and milestones for installations - identify labour and material sources and negotiate with contractors, suppliers and other service providers to meet installation deadlines for installations - monitor work progress and adjustment of resource requirements to meet both customer's needs and costing parameters in installations.
Context of, and specific resources for assessment	Assessment must ensure: - sites and equipment where cabling installation may be conducted - relevant regulatory and equipment documentation that impact on installation 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 hands-on project completed by the candidate - review of report prepared by the candidate detailing project scheduling and supply requirements - direct observation of the candidate scheduling and supplying a cabling installation.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example: ICTCBL3009B Install, terminate and certify structured cabling installation.

	Aboriginal people and other people from a non-English 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.
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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.

Key dates and milestones may include:	• installation of other services • materials delivery • start and finish date or time.
Relevant authorities may include:	• cable location services (Dial Before you Dig) • environment protection • local government • private owners • utility providers such as: • electricity • fire services • gas • other telecommunications providers • water.
Material supplies include:	• ACMA approved cabling products • cable compliant with appropriate ACMA technical standard requirements: • aerial • Category 5, 6, 6A, 7 or 7A • shielded twisted pairs (STP) • underground • UTP.
Licensing may include:	• ACMA customer premises cabling • heavy vehicles • power tools.
Relevant legislation, codes, regulations and standards include:	• 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 • cabling security codes and regulations • industrial awards and conditions • OHS • regulated or industry codes of practice • technical standards AS/ACIF S008:2006 and AS/ACIF S009:2006 • Trade Practices Act.
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Unit Sector(s)

Telecommunications - Cabling