



**Australian Government**

# **ICTCBL320 Jumper metallic conductor cable in the access network**

**Release: 1**

# ICTCBL320 Jumper metallic conductor cable in the access network

## Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 3.0.

## Application

This unit describes the skills and knowledge required to jumper metallic conductor cable in access network cabinets or exchange distribution frames. It applies to new or existing jumpering for upgrades or network cabling rearrangements for convergence to next generation networks (NGN).

It applies to linesworkers, technicians or jointers who carry out technical roles involving indoor and outdoor distribution frame jumpering. All jumpering in access network distribution cabinets must be conducted by workers who have been authorised by the network owner or carrier to undertake the work involved.

Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. Refer to the Implementation Guide Companion Volume or the relevant regulator for specific guidance on requirements.

## Unit Sector

Telecommunications – cabling

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare cabinet and termination frame for jumpering	1.1 Arrange access according to customer and individual worksite requirements 1.2 Set up work site to ensure public safety and to comply with utility provider, local, state and commonwealth requirements 1.3 Inspect site to develop work health and safety (WHS) plan and

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	<p>notify appropriate personnel of identified safety hazards</p> <p>1.4 Prepare for cable jumpering work observing client practices, cable type, termination systems, earthing and protection and relevant legislative requirements</p> <p>1.5 Select correct jumpering activities for installation according to client practices</p> <p>1.6 Identify remote power feeding services that operate at above telecommunications network voltage (TNV) and special services that terminate in the cabinet of housing</p> <p>1.7 Take necessary precautions to work safely with network voltages and minimise service disruption to special services</p> <p>1.8 Remove all contaminants from worksite that may adversely affect jumpering and prepare worksite to ensure adequate visibility to minimise errors and reduce eye strain</p> <p>1.9 Plan block locations following client practices within the frame and allow for capacity to expand jumpering where possible</p>
2. Jumper terminal blocks on frame	<p>2.1 Install terminating modules to frame according to manufacturer's specifications</p> <p>2.2 Set up jumpering reel near source terminal block and draw jumper through frame</p> <p>2.3 Terminate jumper to block and return, cut and terminate source end of jumper</p> <p>2.4 Identify and label jumpers according to client practices</p> <p>2.5 Install over-voltage protection devices to all cables with metallic component where required</p> <p>2.6 Earth cable shield to manufacturer's specifications and industry standards</p>
3. Test jumpering and seal closure	<p>3.1 Conduct visual inspection to confirm that jumper is not kinked or jammed</p> <p>3.2 Test termination to satisfy performance specifications and record results if required</p> <p>3.3 Close housing, seal and re-pressurise where necessary</p>
4. Complete records and restore site	<p>4.1 Update records and plans accurately with cabling details according to industry codes of practice and current Australian standards</p> <p>4.2 Remove installation waste and debris from worksite and dispose of according to environmental requirements to maintain safe worksite conditions</p>

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	4.3 Notify appropriate personnel about completion of job and obtain sign off

## Foundation Skills

*This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.*

<b>Skill</b>	<b>Performance Criteria</b>	<b>Description</b>
Reading	1.1, 1.4, 2.1, 2.4, 2.6, 3.2, 4.1	<ul style="list-style-type: none"> <li>Interprets textual information from relevant sources to identify relevant and key information</li> </ul>
Writing	1.3, 2.4, 3.2, 4.1, 4.3	<ul style="list-style-type: none"> <li>Uses clear, specific and industry related terminology to complete workplace documentation</li> </ul>
Oral communication	1.1, 1.3, 4.3	<ul style="list-style-type: none"> <li>Interacts effectively in verbal exchanges using appropriate language, listening and questioning skills to convey and clarify information</li> </ul>
Numeracy	1.4, 1.6, 2.1, 2.6, 3.2, 4.1	<ul style="list-style-type: none"> <li>Takes readings and measurements and interprets results</li> </ul>
Navigate the world of work	1.1, 1.2, 1.3, 1.4, 1.7, 1.8, 2.5, 2.6, 4.1, 4.2	<ul style="list-style-type: none"> <li>Complies with policies, procedures and legislative requirements relevant to own role</li> </ul>
Interact with others	1.1, 1.3, 4.3	<ul style="list-style-type: none"> <li>Identifies and follows accepted communication practices and protocols when liaising with clients, colleagues and others</li> </ul>
Get the work done	1.1, 1.4, 1.5, 1.6, 1.9, 2.1, 3.1, 3.2, 4.1, 4.3	<ul style="list-style-type: none"> <li>Plans, sequences and carries out tasks to meet required outcomes</li> <li>Analyses task requirements to decide on appropriate equipment and practices</li> </ul>

## Unit Mapping Information

<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
ICTCBL320 Jumper metallic conductor cable in the access	Not applicable	New unit to address industry skill needs.	No equivalent unit

<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
network			

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>