

1. Module details

Module name

Standards and Regulations – Telecommunications

Suggested structured learning time

A learner possessing the prerequisite skills and knowledge should achieve the module purpose in 18 to 20 hours.

Module code

NUE190

Discipline code

Electrotechnology - 0703225

2. Module purpose

This module provides the student with the knowledge and understanding of the Telecommunications Cabling Provider Rules 2000 and the role of the Australian Communications Authority (ACA) regulatory role.

3. Learning pathway

Intended use in the structured learning program

This module is intended to supplement workplace exposure to installing telecommunications and network cabling. In particular, it focuses on the application of telecommunication regulations.

Therefore before undertaking this module a learner should have a knowledge of telecommunications and network systems and need to work safely.

Recommended prerequisites

For the most effective learning this module should be undertaken only after modules NUE192 and NBB002.1 has been completed.

4. Relationship to competency standards

This module provides part of the underpinning knowledge and skills in the 'Evidence Guide' of specific units of competency in the National Electrotechnology Training Package and provides similar support, where mapped, to equivalent units in the National Metals and Engineering Competency Standards. For details refer to the module to unit maps, available from NUEITAB.

5. Content

1. Australian Communication Authority (ACA)
 - Role
 - Telecommunication Act 1997

	<ol style="list-style-type: none"> 2. Cabling Provider Rules, Regulations, Standards, codes <ul style="list-style-type: none"> • Cabling provider rules • Regulations • AS standards • Other technical standards • Codes • Labelling • Certified Components List (CCL) or replacement 3. Registration <ul style="list-style-type: none"> • Mandatory (open, restricted, lift) • Voluntary • Competency requirements and training for registration
<p>6. Assessment strategy</p>	
<p>Assessment methods</p>	<p>Assessment should be progressive reflecting a holistic approach to ensure the module purpose is met. To assist in ensuring validity, reliability and fairness assessment instruments should include practical exercises, assignments and written tests consisting of a number of item types, such as multiple choice, short answer and problem solving.</p>
<p>Conditions of assessment</p>	<p>Learning and assessment will take place in an environment that is conducive to a learner's development.</p>
<p>7. Learning outcome details</p>	
<p>Learning outcome 1</p>	<p>Explain the role of the Australian Communication Authority (ACA).</p>
<p>Assessment criteria</p>	<ol style="list-style-type: none"> 1.1 Define the role of the ACA under the Telecommunication Act 1997. 1.2 Describe ACA's role as an authority, regulator and auditor. 1.3 List the penalties for non-compliance with the Telecommunication Act 1997.
<p>Learning outcome 2</p>	<p>Define the role of carriers and registered cabling.</p>
<p>Assessment criteria</p>	<ol style="list-style-type: none"> 2.1 Define the Network Boundary as describe in ACA's requirements and Technical Standard TS009.

	2.2	Describe the requirements for connection to a licensed carrier's network, including compliance with the Labelling Notice.
	2.3	State the requirements for conformance with the wiring rules
	2.4	State the compliance declaration forms that must be completed and how long they are to be retained for auditing purposes
	2.5	Outline the conditions under which a carrier can refuse connection.
Learning outcome 3		Outline the cabling provider rules.
Assessment criteria	3.1	Identify the mandatory and voluntary technical standards for customer premises cabling wiring rules.
	3.2	Identify the technical standards for cabling products.
	3.3	Identify the technical standards for overall cabling responsibility.
	3.4	Identify the supervision requirements applying to Cabling Provider Rules.
	3.5	Identify the audit, inspections, and complaint rules applying to Cabling Provider Rules.
	3.6	List sources information that are available in relation to Cabling Provider Rules
Learning outcome 4		Describe the mandatory standards for customer premises cabling.
Assessment criteria	4.1	Define harmful and hazardous services.
	4.2	State the minimum clearance and separation/segregation from other hazardous services.
	4.3	State the telecommunications cable conductor identification codes
	4.4	State types of telecommunications termination systems that can be used to connect to a Carrier's network
Learning outcome 5		Describe the registration principles.
Assessment criteria	5.1	List the mandatory registration types.
	5.2	Identify the voluntary registration types.

- 5.3 List the registrars for registration.
- 5.4 List the methods of registration.
- 5.5 Describe the competency requirements and or qualifications for registrations in the Open Cabling, Restricted Cabling and Lift Cabling categories.

8. Delivery of the module

Delivery strategy

Delivery strategies must be suitable for learning both theoretical and practical aspects described in the module purpose. It is considered that the most effective method to achieve this is by integration of theory and practice where students learn by experimentation, research and reports. It is recommended that learning and assessment be facilitated in a holistic manner that may require learning outcome sequence other than that indicated in the module.

Resource requirements

Resources should be sufficient for students to carry out learning activities on an individual basis. This will require a range of support equipment and reference material.

Students will require access to the following reference material or their replacements:

TS008

TS009

AS/NZS 1668

AS 1670

AS1851

AS 2220

AS/NZS 3000 series and related sub-standards

Telecommunications Act 1997 - overview

The Building Code of Australia Volumes 1-3

Australian Communications Authority Cabling Provider Rules – Benchmark Cabler Competency Requirements - 2000

Communication Cabling Manual BCL Package

Certified Components List (CCL) or replacement

Labelling

Specialised facilities and equipment required by the training provider include:

- Access to a range of industrial, commercial and domestic sites

In addition learners will require access to:

Standard workshops and equipment should be available for practical exercises:

- Approved telecommunication tools
- Approved safety equipment

**Occupational health
and safety requirements**

Where this module is used in an approved Traineeship or Apprenticeship program learners should be advised to obtain, where available, respective EEQSBA1 *User Guides* (these outline in detail what training and work performance the Learner is required to undertake for the program).

A safe and healthy environment will be provided for learners and teachers. Safety procedures for the particular learning facilities shall be followed as part of the learning / teaching activity and assessment.

¹ EEQSBA – ElectroComms and EnergyUtilities Qualifications Standards Body of Australia Ltd.