Australian Government

UEE41720 Certificate IV in Rail - Communications and Network Systems

Release 3

UEE41720 Certificate IV in Rail - Communications and Network Systems

Modification History

Release 3. Updated superseded imported elective units.

Release 2. Updated superseded HLT, BSB and ICT elective units.

Release 1. This is the first release of this qualification in the UEE Electrotechnology Training Package

Qualification Description

This qualification covers competencies to select, install, commission, fault find and maintain radio and dedicated telecommunications networks in rail systems.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

There are no entry requirements for this qualification

Packaging Rules

A total of **1280 weighting points** comprising:

720 core weighting points listed below; plus

560 general elective weighting points from the general elective units listed below.

Choose a total of **560 weighting points** elective units from the list below, of which between **0 and 160 weighting points** can be taken from Group A; and between **0 and 340 weighting points** must be taken from Group B; and between **220 and 560 weighting points** must be taken from Group C; or all **560 weighting points** can be taken from Group C.

Up to **220 weighting points** of the general elective units Group A, may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in the UEE Electrotechnology Training Package Companion Volume Implementation Guide (CVIG), if not listed weighting points will be 10 points, unless directed from the Electrotechnology Industry Reference Committee (IRC).

There are units of competency within this qualification that contain pre-requisites. Units of competency that have a pre-requisite requirement are identified by this symbol *. Refer directly to the units of competency to identify pre-requisite requirements to ensure all are complied with.

A list of all pre-requisites is also provided in the UEE Pre-requisite Companion Volume.

Where imported units are selected, care must be taken to ensure all pre-requisite units specified are complied with.

Core units		Weighting Points
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace	20
UEECD0010	Compile and produce an energy sector detailed report	60
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work*	20
UEECD0019	Fabricate, assemble and dismantle utilities industry components*	40
UEECD0024	Implement and monitor energy sector WHS policies and procedures	20
UEECD0027	Participate in development and follow a personal competency development plan	20
UEECD0043	Solve problems in direct current circuits*	80
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications*	40
UEEEC0028	Fault find and repair complex power supplies*	40
UEEEC0060	Repairs basic electronic apparatus faults by replacement of components*	40
UEEEC0066	Troubleshoot amplifiers in an electronic apparatus*	80
UEEEC0067	Troubleshoot basic amplifier circuits*	40
UEEEC0069	Troubleshoot digital sub-systems*	80
UEEEC0074	Troubleshoot resonance circuits in an electronic apparatus*	80
UEEEC0075	Troubleshoot single phase input d.c power supplies*	40
UEERE0015	Implement and monitor energy sector environmental and sustainable policies and procedures	20

Group A: Imported and common elective units		Weighting Points
BSBOPS203	Deliver a service to customers	20

CPCWHS1001	Prepare to work safely in the construction industry	10
HLTAID009	Provide cardiopulmonary resuscitation	10
ICTICT214	Operate application software packages	20
UEECD0011	Comply with scheduled and preventative maintenance program processes	20
UEECD0035	Provide basic instruction in the use of electrotechnology apparatus	20
UEECO0002	Maintain documentation	20
UEECO0015	Provide quotations for installation or service jobs	20
UEECO0017	Source and purchase material/parts for installation or service jobs	20

Group B: Qualification elective units		**Weighting Points**
UEECS0033	Use engineering applications software on personal computers	40
UEEDV0004	Install and connect data and voice communication equipment*	40
UEEDV0005	Install and maintain cabling for multiple access to telecommunication services*	80
UEEDV0006	Install and modify optical fibre performance data communication cabling*	40
UEEDV0008	Install, modify and verify coaxial and structured communication copper cabling*	40
UEEDV0009	Select and arrange data and voice equipment for local area networks*	40
UEEDV0010	Select and arrange equipment for wireless communication networks*	40
UEEDV0012	Set up and configure the wireless capabilities of communications and data storage devices	40
UEEEC0019	Develop software solutions for microcontroller-based systems*	60

Group C: Qualification elective units		**Weighting Points**

UEEEC0022	Diagnose and rectify faults in camera circuits and equipment*	60
UEEEC0023	Diagnose and rectify faults in digital transmission circuits and systems*	80
UEEEC0024	Diagnose and rectify faults in electronic display circuits*	60
UEEEC0025	Diagnose and rectify faults in recording and replay equipment	60
UEEEC0033	Fault find and repair navigation systems*	60
UEEEC0051	Program and commission commercial video/audio systems*	40
UEEEC0061	Set up and adjust commercial radio frequency (RF) transmission and reception systems*	60

Qualification Mapping Information

This qualification replaces and is equivalent to UEE41711 Certificate IV in Rail - Communications and Network Systems

Links

Companion Volume Implementation Guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6