



Australian Government

UEE41020 Certificate IV in Energy Management and Control

Release: 4

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Modification History

Release 4. Updated superseded elective units.

Release 3. Updated superseded elective units.

Release 2: Two units added to Group B General Electives. Imported elective units updated.

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

Qualification Description

This qualification covers competencies to develop strategies for the reduction of energy in buildings and to recommend changes in the way in which energy is controlled in the building, either by the installation of new control equipment or by the modification or re-programming of existing control equipment.

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

Entry Requirements

The entry requirement for this qualification is:

- UEE30820 Certificate III in Electrotechnology Electrician
- or
- a current ‘Unrestricted Electricians Licence’ ‘or its equivalent issued in an Australian state or territory.

Packaging Rules

A total of **440 weighting points** comprising:

140 core weighting points listed below; plus

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

Choose a total of **300 weighting points** elective units from the list below, of which between **0 and 100 weighting points** can be taken from Group A; between **0 and 100 weighting points** can be taken from Group B; and between **200 and 300 weighting points** can be taken from Group C (or all electives units of **300 weighting points** can be taken from Group C).

Up to **100 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 that 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
UEECD0010	Compile and produce an energy sector detailed report	60
UEECD0024	Implement and monitor energy sector WHS policies and procedures	20
UEECD0027	Participate in development and follow a personal competency development plan	20
UEERE0014	Develop strategies to address sustainability issues for electrical installations*	20
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	20

service jobs

Group B: Qualification elective units		Weighting Points
UEECD0028	Plan an integrated cabling installation system*	40
UEECS0033	Use engineering applications software on personal computers	40
UEEDV0005	Install and maintain cabling for multiple access to telecommunication services*	80
UEEDV0008	Install, modify and verify coaxial and structured communication copper cabling*	40
UEEEEC0060	Repairs basic electronic apparatus faults by replacement of components*	40
UEEEEC0075	Troubleshoot single phase input d.c power supplies*	40
UEEEL0016	Provide advice on effective and energy efficient lighting products	20
UEEEL0022	Supply effective and efficient lighting products for domestic and small commercial applications*	40
UEEEL0049	Install and maintain emergency safety systems*	60
UEEEL0061	Provide advice on the application of energy efficient lighting for ambient and aesthetic effect*	20
UEEEL0078	Install and commission whole current electricity meters*	20
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20
UEEIC0011	Develop electrical integrated systems*	20
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers*	60
UEEIC0038	Solve problems in density/level measurement components and systems*	40
UEEIC0039	Solve problems in flow measurement components and systems*	40
UEEIC0041	Solve problems in pressure measurement components and systems*	40

UEEIC0043	Solve problems in temperature measurement components and systems*	40
UEEEL0076	Inspect, test and maintain emergency lighting systems*	20
UEEEL0075	Inspect, test and maintain emergency alarm systems and equipment*	20

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

CPPHES4005	Assess household energy use and efficiency improvements	40
UEECD0061	Write specifications for refrigeration and air conditioning engineering projects	40
UEEEL0007	Develop detailed electrical drawings*	60
UEEEL0029	Conduct compliance inspection of LV electrical installations with demand exceeding 100 A per phase*	40
UEEEL0030	Conduct compliance inspection of single phase LV electrical installations*	60
UEEEL0031	Conduct compliance inspection of special LV electrical installations*	60
UEEEL0036	Design effective and efficient lighting for residential and commercial buildings*	20
UEEEL0040	Develop compliance policies and plans to conduct an electrical contracting business*	80
UEEEL0044	Diagnose and rectify faults in complex lift systems*	40
UEEEL0050	Install and replace low voltage current transformer metering*	20
UEEEL0051	Investigate and report on electrical incidents and causes*	60
UEEEL0057	Plan electrical installations with a low voltage demand up to 400 A per phase*	40
UEEEL0059	Plan low voltage switchboard and control panel layouts*	40
UEEEL0060	Prepare quotations for the supply of effective and efficient lighting products for lighting projects*	20
UEEEL0063	Provide photometric data for illumination system design	60

UEEEL0070	Select effective and efficient light sources and luminaries for given locations and designs*	60
UEEEL0071	Select low voltage power factor correction equipment*	40
UEEEL0072	Set up and place LV electrical apparatus and associated circuits into service*	40
UEEEL0073	Verify compliance and functionality of special LV electrical installations*	40
UEERE0052	Assess energy loads and uses for energy efficiency in commercial facilities*	40
UEERE0053	Assess energy loads and uses for energy efficiency in industrial properties and enterprises*	40

Qualification Mapping Information

This qualification replaces and is not equivalent to UEE41011 Certificate IV in Energy Management and Control

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>