



**Australian Government**

# **UEE40520 Certificate IV in Electrical - Air Conditioning Split Systems**

**Release 1**

# UEE40520 Certificate IV in Electrical - Air Conditioning Split Systems

## Modification History

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 electrical systems and equipment in buildings and premises and split air conditioning systems to a prescribed routine where the maximum plant capacity for each system does not exceed 18 kilowatt (kW). It includes regulatory requirements for purchasing and handling refrigerants for split systems.

Split systems include wall hung, floor and ceiling suspended, cassette and ducted fan coil split systems. This qualification excludes competencies required for service, repair, maintenance or the safe and proper installation of commercial refrigeration and air conditioning plant and 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

and

- a full Refrigeration and Air Conditioning Refrigerant Handling Licence.

## Packaging Rules

A total of **450 weighting points** comprising:

**290 core weighting points** listed below; **plus**

**160 general elective weighting points** from the general elective units listed below.

Choose a total of **160 weighting points** elective units from the list below, of which between 0 and **80 weighting points** can be taken from Group A; and between 0 and **80 weighting points** can be taken from Group B; and between 80 and **160 weighting points** can be taken from Group

C (or all electives units of 160 **weighting points** can be taken from Group C).

**Up to 80 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.

<b>Core units</b>		<b>Weighting Points</b>
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
UEERA0049	Install and start up single head split air conditioning and water heating heat pump systems*	70
UEERA0059	Prepare and connect refrigerant tubing and fittings*	40
UEERA0064	Recover, pressure test, evacuate, charge and leak test refrigerants - split systems*	60
UEERE0015	Implement and monitor energy sector environmental and sustainable policies and procedures	20
<b>Group A: Imported and common elective units</b>		<b>Weighting Points</b>
BSBCUS201	Deliver a service to customers	20
CPCCWHS1001	Prepare to work safely in the construction industry	10
HLTAID001	Provide cardiopulmonary resuscitation	10
ICTICT203	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
UEEIC0002	Assemble, enter and verify operating instructions in microprocessor equipped devices*	20
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers*	60
UEERA0036	Establish the basic operating conditions of vapour compression systems*	60
UEERA0035	Establish the basic operating conditions of air conditioning systems*	20
UEERA0007	Apply safety awareness and legal requirements for flammable refrigerants	10

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

UEECD0047	Supervise and coordinate energy sector work activities	40
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
UEERA0002	Analyse the psychrometric performance of HVAC/R systems*	50
UEERA0003	Analyse the thermodynamic performance of HVAC/R systems	50

## Qualification Mapping Information

This qualification replaces and is not equivalent to UEE40511 Certificate IV in Electrical - Air-conditioning Split Systems

## Links

Companion Volume implementation guides are found in VETNet - -

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