



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **UEE40410 Certificate IV in Electrical - Instrumentation**

**Release: 1**

## **UEE40410 Certificate IV in Electrical - Instrumentation**

### **Modification History**

Not Applicable

### **Description**

#### **Scope**

This qualification provides competencies to select, install, commission, fault find and maintain electrical and instrumentation equipment in buildings and premises and instrumentation systems and core instrumentation equipment for process and control. It includes ERAC requirements for an 'Electrician's licence'.

### **Pathways Information**

Not Applicable

### **Licensing/Regulatory Information**

Not Applicable

### **Entry Requirements**

Not Applicable

### **Employability Skills Summary**

Not Applicable

## Packaging Rules

### Completion requirements

The requirements for awarding this qualification are that the following are successfully achieved:

- All of the Core competency standard units;
- The required number of Stream Core competency standard units;
- The required number of Elective competency standard units as prescribed in the respective Schedule; and
- All the required pre-requisite competency standard units have been met as required.
  - Note: UEENEEG005B - Those holding an 'Unrestricted Electricians Licence or equivalent issued in an Australian State or Territory meet the requirements of this unit and its pre-requisite requirements.

### Core Competency Standard Units

All Core competency standard units to be achieved

|             |  |
|-------------|--|
| UEENEEE001B | Apply OHS practices in the workplace   |
| UEENEEE002B | Dismantle, assemble and fabricate electrotechnology components               |
| UEENEEE003B | Solve problems in extra-low voltage single path circuits                     |
| UEENEEE004B | Solve problems in multiple path d.c. circuits                                |
| UEENEEE005B | Fix and secure equipment   |
| UEENEEE007B | Use drawings, diagrams, schedules and manuals                                |
| UEENEEE008B | Lay wiring/cablings and terminate accessories for extra-low voltage circuits |
| UEENEEE017B | Implement and monitor OHS policies and procedures                            |
| UEENEEE024C | Compile and produce an electrotechnology report                              |
| UEENEEE033B | Document occupational hazards and risks in electrical work                   |
| UEENEEE038B | Participate in development and follow a personal competency development plan |
| UEENEEG001B | Solve problems in electromagnetic circuits                                   |
| UEENEEG002B | Solve problems in single and three phase low voltage circuits                |
| UEENEEG003B | Install wiring and accessories for low voltage circuits                      |
| UEENEEG004B | Install low voltage electrical apparatus and associated equipment            |

|             |   |
|-------------|---|
| UEENEEG005B | Verify compliance and functionality of general electrical installations |
| UEENEEG007B | Select and arrange equipment for general electrical installations       |
| UEENEEG008B | Find and repair faults in electrical apparatus and circuits             |
| UEENEEG009B | Develop and connect control circuits                                    |
| UEENEEI001B | Install and set up transducers and sensing devices                      |
| UEENEEI002B | Solve problems in pressure measurement systems                          |
| UEENEEI003B | Solve problems in density/level measurement systems                     |
| UEENEEI004B | Solve problems in flow measurement systems                              |
| UEENEEI005B | Solve problems in temperature measurement systems                       |

### **Stream Core Competency Standard Units**

At least 3 of the following competency standard units to be achieved

|             |  |
|-------------|--|
| UEENEEC001B | Maintain documentation   |
| UEENEEC002B | Source and purchase material/parts for installation or service jobs                              |
| UEENEEC003B | Provide quotations for installation or service jobs  |
| UEENEEC010B | Deliver a service to customers   |
| UEENEED001B | Use basic computer applications relevant to a workplace  |
| UEENEEE009B | Comply with scheduled and preventative maintenance program processes                             |
| UEENEEE020B | Provide basic instruction in the use of electrotechnology apparatus                              |
| UEENEEK042A | Participate in environmentally sustainable work practices  |
| UEENEEK045A | Implement&monitor, policies&procedures for environmentally sustainable electrotech work practice |

### **Elective Competency Standard Units**

In accordance with Schedules 3 and 4, which forms an integral part of this qualification, achieve a Unit Strand Total of at least 8, of which at least 2 shall be selected from Schedule 4 as specified.

**Note:** 1. Pre-requisite pathways shall be identified and met for all elective units selected.  
2. In selecting elective units considerations to career planning advice should be given to units that form part of a pre-requisite pathway for the progression to achieve particular competencies or qualification at a higher level.

END OF QUALIFICATION

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