



**Australian Government**

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

# **UEE42210 Certificate IV in Instrumentation and Control**

**Release: 1**

## **UEE42210 Certificate IV in Instrumentation and Control**

### **Modification History**

Not Applicable

### **Description**

#### **Scope**

This qualification provides competencies to select, install, set up, test, fault find, repair, maintain and commission systems and devices for measurement and recording of physical/chemical phenomenon and related process control systems.

### **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: UEENEEI012B - Those holding an 'Certificate III in Instrumentation and Control trade qualification or equivalent" meet the requirements of this unit and its pre-requisite requirements.

### Core Competency Standard Units

All Core competency standard units to be achieved

UEENEE007B	Develop, enter and verify programs for programmable logic controllers using ladder instruction set
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
UEENEEE017B	Implement and monitor OHS policies and procedures
UEENEEE024C	Compile and produce an electrotechnology report
UEENEEE035B	Document occupational hazards and risks in instrumentation
UEENEEE038B	Participate in development and follow a personal competency development plan
UEENEEH014B	Troubleshoot frequency dependent circuits
UEENEEH043B	Diagnose and rectify faults in digital subsystems of electronic controls

### Core Competency Standard Units

All Core competency standard units to be achieved

UEENEEH044B	Diagnose and rectify faults in analogue circuits and components in electronic control systems
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
UEENEEI006B	Solve problems in process controllers, transmitters and converters
UEENEEI007C	Install process instrumentation and control cabling and tubing
UEENEEI008C	Install process control apparatus and associated equipment
UEENEEI010B	Set up and adjust process control loops
UEENEEI012B	Verify compliance and functionality of process control installations
UEENEEI013B	Select equipment for process control systems
UEENEPE001B	Disconnect and reconnect fixed wired electrical equipment connected to a Low Voltage supply

### 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

**Stream Core Competency Standard Units**

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

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 10, of which at least 6 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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