



Australian Government

Department of Education, Employment and Workplace Relations

UEE50210 Diploma of Electrical and Instrumentation

Release: 1

UEE50210 Diploma of Electrical and Instrumentation

Modification History

Not Applicable

Description

Scope

This qualification provides competencies to develop, select, install, commission, maintain and diagnose faults/malfunctions on electrical, instrumentation and control equipment and systems. 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.
 - Note: UEENEEI012B - Those holding a '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

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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
UEENEEE008B	Lay wiring/cabling 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
UEENEEE035B	Document occupational hazards and risks in instrumentation
UEENEEE038B	Participate in development and follow a personal competency development plan
UEENEEE084A	Write specifications for electrotechnology engineering projects
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

Core Competency Standard Units

All Core competency standard units to be achieved

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

Stream Core Competency Standard Units

At least 1 of the following competency standard units to be achieved

BSBMGT502B	Manage people performance
BSBINM501A	Manage an information or knowledge management system
BSBMGT516C	Facilitate continuous improvement
BSBINN502A	Build and sustain an innovative work environment
BSBWOR502B	Ensure team effectiveness

OR

Stream Core Competency Standard Units

At least 1 of the following competency standard units to be achieved

At least 4 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
UEENEEC001B	Use basic computer applications relevant to a workplace
UEENEEC009B	Comply with scheduled and preventative maintenance program processes
UEENEEC020B	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 Schedule 5 which forms an integral part of this qualification, achieve a Unit Strand Total of at least 9

- 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.
 3. Registered training organisations shall provide competency development advice in relation to any licensing requirements to practice that apply, or can contribute towards the qualification requirement, prior to establishing the competency development plan.

END OF QUALIFICATION
