


# Certificate III Electrotechnology Instrumentation (UTE 3 08 99)

## Map to

### UTE NES 208 - Disconnect and reconnect Unit - endorsement of Control Devices

The following provides a map between the Certificate III in Electrotechnology Instrumentation (UTE 3 08 99) qualification outcomes, as designed and included in the national Electrotechnology Training Package and the competency standard unit, UTE NES208 – Disconnect and reconnect fixed wired electrical equipment connected to supply up to 1,000 volts a.c. or 1,500 volts d.c. (*Control Devices*). Included is a map of the knowledge and skills underpinning the respective competency standard units for the qualification and the competency standard units relationship in outcome terms with unit UTE NES208 - (*Control Devices*).

#### Knowledge and Skills Mapping

National Restricted Electrical Work  K&S Modules  	National Modules - Certificate III in Electrotechnology Instrumentation (UTE 3 08 99)				<u>Comments</u>
	NBB02.1	NE172.2	NUE049	NUE056	National Module Legend: NBB02 – Occupational Health & Safety NE172.2 – Electrical Wiring & Equipment 1 NUE049 – Applied Electricity – d.c. NUE056 – Applied Electricity 4
<b>NRE01 - Electrical Safety, Basic Electrical Principles and Cable Connections</b>					
Learning Outcome 1	X				Dangers & Safety Procedures
Learning Outcome 2	X				First Aid Treatment
Learning Outcome 3	X				Electrical Fires & Hazards
Learning Outcome 4			X	X	Basic Electrical Circuit
Learning Outcome 5		X	X	X	Connections & Measurements
Learning Outcome 6			X	X	Relationships in Circuits
Learning Outcome 7		X			Cords/Cables Terminations
<b>NRE02 - Disconnection/Reconnection</b>					
Learning Outcome 1		X	X	X	Testing for Supply
Learning Outcome 2		X		X	Isolation
Learning Outcome 3		X			Disconnection
Learning Outcome 4		X			Selection and Testing
Learning Outcome 5		X			Circuit Testing
Learning Outcome 6		X			Reconnection
<b>NRE13 - Produce Status Reports Using Established Procedures</b>					
Learning Outcome 1		X			Producing Status Reports

**Competency Standard Units Work Performance- Mapping**

<b>CIII Instrumentation competency standard units</b>	<b>NREW Unit – UTE NES208Q B</b>	<b>Comments – Assessment Criteria for Unit 208Q – Work Performance.</b>
NES105gA	X	Competence must be demonstrated in relation to <i>Control Devices</i> for which competency is sought. In judging competent performance it is essential that evidence regarding the following aspects of competency be considered: <ul style="list-style-type: none"> <li>(a) Performance is autonomous and to requirements and occurs on at least 2 occasions for each of the following elements:               <ul style="list-style-type: none"> <li>▪ Prepare to disconnect <i>Control Devices</i></li> <li>▪ Disconnect <i>Control Devices</i></li> <li>▪ Prepare to reconnect <i>Control Devices</i></li> <li>▪ Reconnect <i>Control Devices</i></li> <li>▪ Test the <i>Control Devices</i> for safe operation</li> <li>▪ Provide status reports; and</li> </ul> </li> <li>(b) In relation to following for <i>Control Devices</i>:               <ul style="list-style-type: none"> <li>▪ OH &amp; S practice</li> <li>▪ Determining electrical characteristics of equipment</li> <li>▪ Selecting tools, equipment, and testing devices</li> <li>▪ Identifying point of installation</li> <li>▪ Circuit identification and isolation (including testing for safe isolation)</li> <li>▪ Preparation to disconnect electrical equipment;</li> <li>▪ Disconnecting of electrical equipment;</li> <li>▪ Preparation to reconnect electrical equipment;</li> <li>▪ Reconnection of electrical equipment; and</li> </ul> </li> <li>(c) Testing of the reconnected <i>Control Devices</i> for safe operation including polarity and earth continuity. Applying techniques, procedures, information and resources relevant to performance.</li> </ul>
NES105iA	X	
NES106dA	X	
NES206dA	X	
NES402dA	X	
NES501dA	X	

**Legend:**

From the National Electrotechnology Training Package (UTE99) for the Certificate III in Electrotechnology Instrumentation (UTE 3 08 99) -

NES105g – Install and terminate wiring systems – *cabling/wiring support and protection*

NES105i – Install and terminate wiring systems – *power and control – extra low voltage*

NES106d – Install electrical/electronic apparatus - *instrumentation*

NES206d – Maintain and repair apparatus and associated circuits - *instrumentation*

NES402d – Test apparatus and circuits - *instrumentation*

NES501d – Diagnose and rectify faults in apparatus and associated circuits – *instrumentation*

**National Restricted Electrical Work competency standard unit – for Control Devices:**

NES208QB – Disconnect and reconnect fixed wired equipment connected to supply up to 1000 V a.c. or 1500 V d.c. – ***Control Devices (Q)*** endorsement

*Note: Candidates must present evidence for both the Knowledge and Skills and Work Performance to be attributed unit NES208QB for Control Devices.*