

## Electrotechnology Qualifications

*Certificate III - Electrotechnology Refrigeration and Air Conditioning (UTE 3 09 99)*

Modules			Core Units									Specialisation																
												Commercial A/C			Commercial Refrig			Domestic Appliances			Hotel/Club Refrig			Industrial Refrig			Trans Refrig & A/C	
Nat. Code	Title	Dur	NES009	NES103E	NES106E	NES206E	NES208^	NES209^	NES210^	NES301E	NES402E	NES501E	NES505^	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	
NBB002.1	Occupational Health & Safety	C 0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5															
NE172.2	Electrical Wiring & Equipment 1	C 0.5		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5															
NE175.1	Workshop Practices	C 1	1	1	1	1	1	1	1	1	1	1	1															
NR01	Refrigeration Fundamentals	C 1	1		1					1	1	1																
NR02	Refrigeration Procedures	C 1	1	1	1					1	1	1																
NR03	Refrigerants	C 1	1		1					1	1	1																
NR04	Refrigeration System Components	C 0.5	0.5		0.5					0.5	0.5	0.5																
NR48.1	Retrofitting Refrigeration Systems	C 0.5			0.5					0.5		0.5																
NR05	Air Conditioning Fundamentals	C 0.5			0.5					0.5		0.5																
NR06	Domestic Refrigerators & Freezers	C 1			1		1			1		1																
NR07	Residential Air Conditioning	C 1			1	1				1		1	1															
NR08.1	Appliance Motors & Circuits	C 1.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5															
NR09	Refrigeration System Operation	C 1			1					1	1	1																
NR10	Refrigerant Controls	C 1	1		1					1	1	1																
NR11	Refrigeration Piping Equipment (Installation)	C 1	1								1																	
NR12.1	System Control	C 1		1	1					1	1	1	1															
NR13	Ventilation	C 1			1	1				1		1	1															
NR14	Air Conditioning Systems	C 1			1	1				1		1	1															
NR15	Air Conditioning Controls	C 1		1	1					1		1																
NR19	Cool Rooms/Freezer Rooms	C 1			1	1				1		1	1															
NR29	Capillary Systems	C 0.5	0.5		0.5					0.5	0.5	0.5																
NR34	Maintenance & Service of Cooling Towers	C 1			1					1		1																
NUE052	Applied Electricity 1	C 1		1	1	1	1	1	1	1	1	1	1															
NUE058	Electrical Concepts & Applications	N 1		1	1	1	1	1	1	1	1	1	1															
NUE508	Refrigeration Systems Safety	N 0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5															
NR16	Transport/Marine Refrigeration	C 1																				1	1	1				
NR17.1	Industrial Refrigeration	C 1																				1	1	1				
NR18	Merchandising & Display Cabinets	C 1																							1	1	1	
NR20	Beverage Dispensers	C 1																										
NR21	Automotive Air Conditioning	C 1																										
NR30	Maintenance & Service of Air Handling Plant	C 0.5												0.5	0.5	0.5												
NR31	Operational Awareness of Air Handling Plant	C 0.5												0.5		0.5												
NR33	Installation & Commissioning of Air Handling Plant	C 0.5												0.5	0.5	0.5												
NR35	Installation & Commissioning of Cooling Towers	C 0.5												0.5	0.5	0.5												
NR45	Post Mix & Dairy Refrigeration Systems	C 0.5															0.5	0.5	0.5							0.5	0.5	0.5
NR46	Commercial Ice Making Systems	C 0.5															0.5		0.5									
NUE012	Service Clothes Washers & Dryers	C 1															1	1	1									
NUE014	Service Dishwashing Machines	C 1															1	1	1									
NUE041	Introduction to Sustainable Energy (Climate Control Context)	C 0.5																		0.5							0.5	
NUE350	Beverage Vending Cabinets	C 0.5																									0.5	
NUE352	Compound Refrigeration Systems	C 1																									0.5	

**Electrotechnology Qualifications**  
*Certificate III - Electrotechnology Refrigeration and Air Conditioning (UTE 3 09 99)*

Modules				Core Units										Specialisation															
														Commercial A/C			Commercial Refrig			Domestic Appliances			Hotel/Club Refrig			Industrial Refrig			Trans Refrig & A/C
Nat. Code	Title		Dur	NES009	NES103E	NES106E	NES206E	NES208^	NES209^	NES210^	NES301E	NES402E	NES501E	NES505^	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	Optional Unit NES011	Optional Unit NES105I	
NEWP009	Participate in the Training of Others WP	N	~	WP																									
NEWP103E	Install/Maintain Piping & Tubing WP	N	~		WP																								
NEWP106E	Install Electrical/Electronic Apparatus (Refrigeration and Air Conditioning) WP	N	~			WP																							
NEWP206E	Maintain & Repair Apparatus & Circuits (Refrigeration and Air Conditioning) WP	N	~				WP																						
NEWP208^	Disconnect & Reconnect Fixed Wired Electrical Equipment 1,000Vac/1,500Vdc WP	N	~					WP																					
NEWP209^	Attach Flexible Cords & Plugs to Electrical Equipment 250 volt supply WP	N	~						WP																				
NEWP210^	Attach Flexible Cords & Plugs to Electrical Equipment 1,000Vac/1,500Vdc WP	N	~							WP																			
NEWP301E	Undertake Commissioning of Apparatus & Circuits (Refrigeration and Air Conditioning) WP	N	~								WP																		
NEWP402E	Test Apparatus & Circuits (Refrigeration and Air Conditioning) WP	N	~									WP																	
NEWP501E	Diagnose & Rectify Faults in Apparatus & Circuits (Refrigeration and Air Conditioning) WP	N	~										WP																
NEWP505^	Locate & Rectify Fault(s) in Electrical Equipment 1kVac/1.5kVdc by procedures WP	N	~											WP															
NEWP011	Monitor Energy Usage in an Electrotechnology Context WP	N	~												WP			WP			WP				WP			WP	
NEWP105I	Install & Terminate Wiring Systems (Power and control – extra low voltage) WP	N	~													WP			WP				WP				WP		WP

Please see page titled "Notes to Matricies"