ESI-TDR UET09 - COMPETENCY FLOWCHART

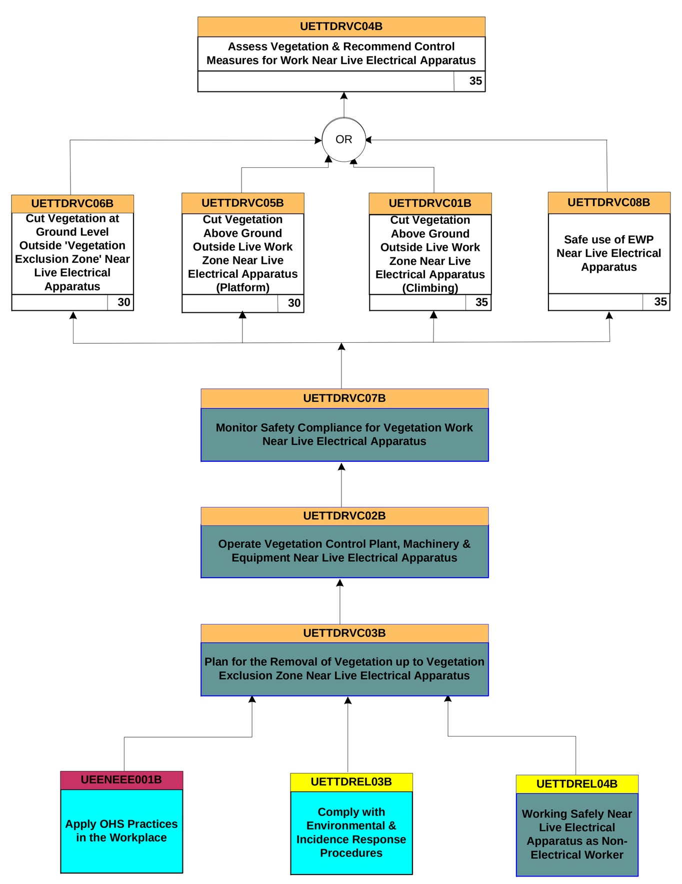
(Not all qualification pathways are displayed, reference to the relevant training packages is recommended for additional detail.)

AQF2

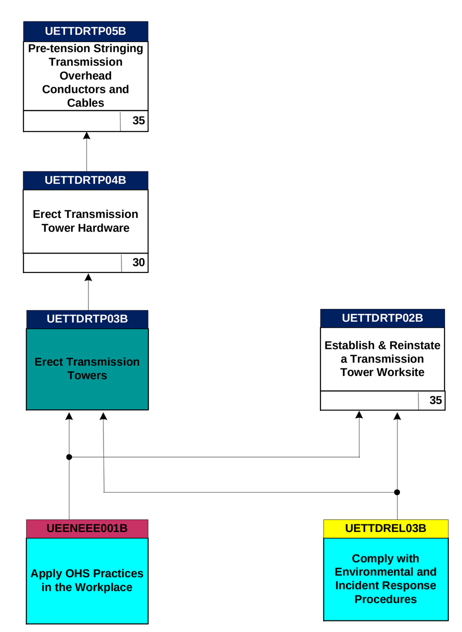
UET20109 - VEGETATION CONTROL - CORE UNITS (All to be completed)	
UEENEEE001B	APPLY OHS PRACTICES IN THE WORKPLACE
UETTDREL03B	COMPLY WITH ENVIRONMENTAL AND INCIDENCE RESPONSE PROCEDURES
UETTDREL04B	WORKING SAFELY NEAR LIVE ELECTRICAL APPARATUS AS NON ELECTRICAL WORKER
UETTDRVC02B	OPERATE VEGETATION CONTROL PLANT, MACHINERY AND EQUIPMENT NEAR LIVE ELECTRICAL APPARATUS
UETTDRVC03B	PLAN FOR THE REMOVAL OF VEGETATION UP TO VEGETATION EXCLUSION ZONE NEAR LIVE ELECTRICAL APPARATUS
UETTDRVC07B	MONITOR SAFETY COMPLIANCE FOR VEGETATION WORK NEAR LIVE ELECTRICAL APPARATUS

UET20209 - TRANSMISSION LINE ASSEMBLY - CORE UNITS (All to be completed)	
UEENEEE001B	APPLY OHS PRACTICES IN THE WORKPLACE
UETTDREL03B	COMPLY WITH ENVIRONMENTAL AND INCIDENCE RESPONSE PROCEDURES
UETTDRTP03B	ERECT TRANSMISSION TOWERS

UET20109 - VEGETATION CONTROL (60)



UET20209 - TRANSMISSION LINE ASSEMBLY (60)



COMPETENCY UNITS - CODING STRUCTURE	
CJ	Cable Jointing Competency Standard Units
DP	Distribution Competency Standard Units
DS	Design Competency Standard Units
EL	Entry Level Cross Discipline Competency Standard Units
IS	Industry Specific Cross Discipline Competency Standard Units
RT	Rail Traction Competency Standard Units
SB	Substation Competency Standard Units
SO	System Operations Competency Standard Units
TP	Transmission Competency Standard Units
TS	Testing Competency Standard Units
VC	Vegetation Competency Standard Units
	Units imported from the ELECTROTECHNOLOGY TP

TRAINING STANDARDS AUSTRALIA

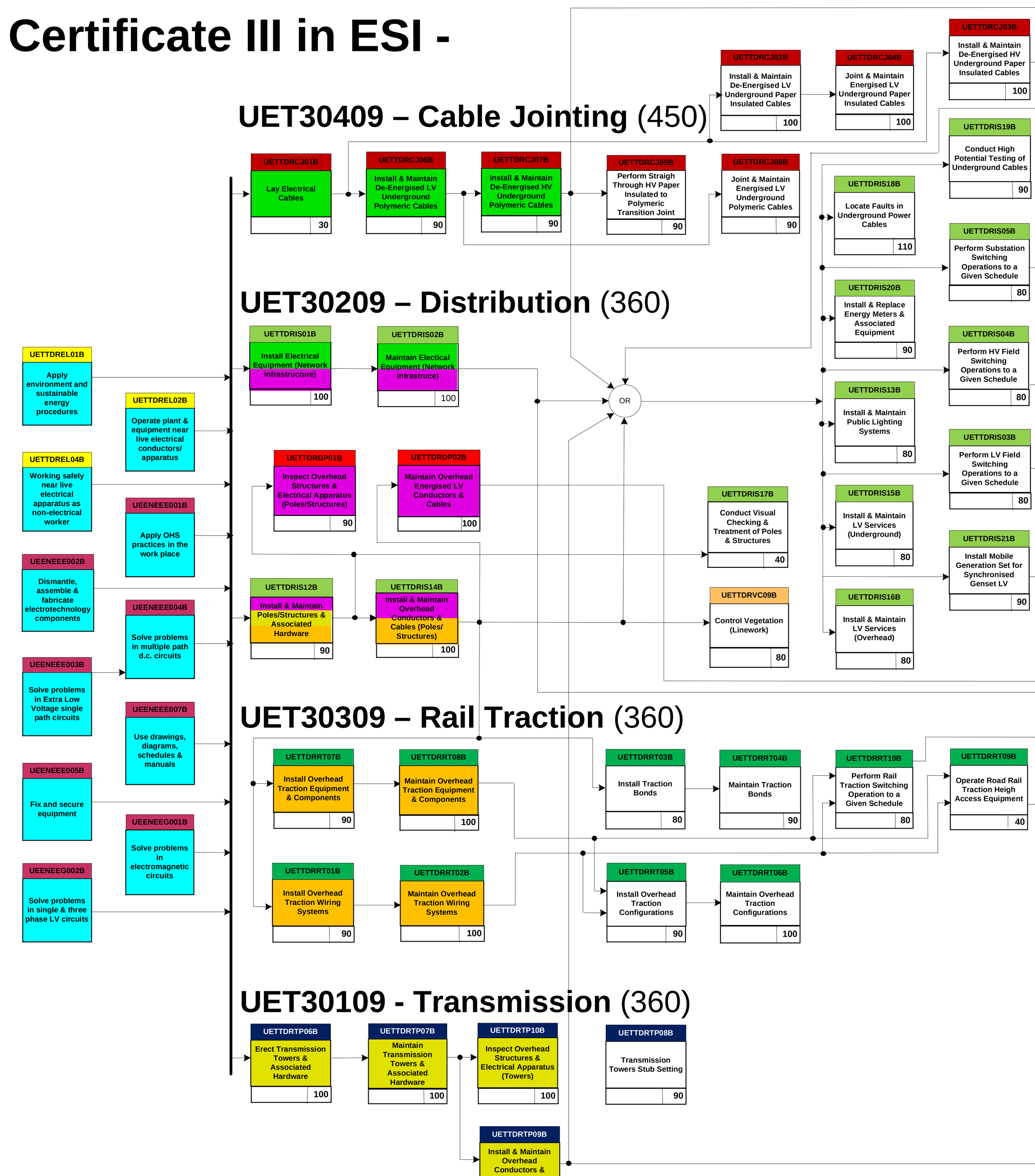
Flowchart reviewed 18 August 2009

AQF3

CABLES, DISTRIBUTION, TRANSMISSION & RAIL - COMMON CORE UNITS (All to be completed)	
UETTDREL01B	APPLY ENVIRONMENT AND SUSTAINABLE ENERGY PROCEDURES
UETTDREL02B	OPERATE PLANT AND EQUIPMENT NEAR LIVE ELECTRICAL CONDUCTORS/APPARATUS
UETTDREL04B	WORKING SAFELY NEAR LIVE ELECTRICAL APPARATUS AS NON ELECTRICAL WORKER
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 DC CIRCUITS
UEENEEE005B	FIX AND SECURE EQUIPMENT
UEENEEE007B	USE DRAWINGS, DIAGRAMS, SCHEDULES AND MANUALS
UEENEEG001B	SOLVE PROBLEMS IN ELECTROMAGNETIC CIRCUITS
UEENEEG002B	SOLVE PROBLEMS IN SINGLE AND THREE PHASE LV CIRCUITS

UET30409 - CABLE JOINTING - CORE UNITS (All to be completed)	
UETTDRCJ01B	LAY ELECTRIC CABLES
UETTDRCJ06B	INSTALL AND MAINTAIN DE-ENERGISED LV UNDERGROUND POLYMERIC CABLES
UETTDRCJ07B	INSTALL AND MAINTAIN DE-ENERGISED HV UNDERGROUND POLYMERIC CABLES
UETTDRIS01B	INSTALL ELECTRICAL EQUIPMENT (NETWORK INFRASTRUCTURE)
UETTDRIS02B	MAINTAIN ELECTRICAL EQUIPMENT (NETWORK AND INFRASTRUCTURE)
UET30209 - DISTRIBUTION - CORE UNITS (All to be completed)	
UETTDRDP01B	INSPECT OVERHEAD STRUCTURES AND ELECTRICAL APPARATUS (POLES & STRUCTURES)
UETTDRDP02B	MAINTAIN OVERHEAD ENERGISED LV CONDUCTORS AND CABLES
UETTDRIS01B	INSTALL ELECTRICAL EQUIPMENT (NETWORK INFRASTRUCTURE)
UETTDRIS02B	MAINTAIN ELECTRICAL EQUIPMENT (NETWORK INFRASTRUCTURE)
UETTDRIS12B	INSTALL AND MAINTAIN POLES / STRUCTURES AND ASSOCIATED HARDWARE
UETTDRIS14B	INSTALL & MAINTAIN OVERHEAD CONDUCTORS & CABLES (POLES & STRUCTURES)
UET30309 - RAIL TRACTION - CORE UNITS (All to be completed)	
UETTDRIS12B	INSTALL AND MAINTAIN POLES / STRUCTURES AND ASSOCIATED HARDWARE
UETTDRIS14B	INSTALL & MAINTAIN OVERHEAD CONDUCTORS & CABLES (POLES & STRUCTURES)
UETTDRRT01B	INSTALL OVERHEAD TRACTION WIRING SYSTEMS
UETTDRRT02B	MAINTAIN OVERHEAD TRACTION WIRING SYSTEMS
UETTDRRT07B	INSTALL OVERHEAD TRACTION EQUIPMENT AND COMPONENTS
UETTDRRT08B	MAINTAIN OVERHEAD TRACTION EQUIPMENT AND COMPONENTS
UET30109 - TRANSMISSION - CORE UNITS (All to be completed)	
UETTDRIS12B	INSTALL AND MAINTAIN POLES / STRUCTURES AND ASSOCIATED HARDWARE
UETTDRTP06B	ERECT TRANSMISSION TOWERS AND ASSOCIATED HARDWARE
UETTDRTP07B	MAINTAIN TRANSMISSION TOWERS AND ASSOCIATED HARDWARE
UETTDRTP09B	INSTALL AND MAINTAIN OVERHEAD CONDUCTORS AND CABLES (TOWERS)
UETTDRTP10B	INSPECT OVERHEAD STRUCTURES AND ELECTRICAL APPARATUS (TOWERS)

Certificate III in ESI -



FRONTLINE and / or CAN UNITS
(Maximum points 160)

Code	Unit	Points
BSBFLM303C	Contribute to effective workplace relations	80
BSBFLM305C	Support operational plan	80
BSBFLM306C	Provide workplace information and resourcing plans	80
BSBFLM309C	Support continuous improvement systems and processes	80
BSBFLM311C	Support a workplace learning environment	80
BSBFLM312B	Contribute to team effectiveness	80

Telecommunications Units (ICT02) Maximum 160 points		
ICTTC013D	Perform accurate customer premises cable & system test	80
ICTTC064D	Haul underground cable	80
ICTTC065D	Splice carrier/service provider optic fibre cable	80
ICTTC066D	Joint and terminate co-axial cable	80
ICTTC068D	Install telecommunications service to a building	80
ICTTC069D	Install network cable equipment	80
ICTTC104D	Maintain an electronic system	80
ICTTC127D	Supervise worksite activities	80
ICTTC131C	Install an above ground equipment enclosure	80
ICTTC133C	Construct underground telecommunications infrastructure	80
ICTTC134C	Fix aerial cable	80
ICTTC135C	Joint metallic conductor cable Access Network	80

UEE30807- Certificate III Electrotechnology Electrician

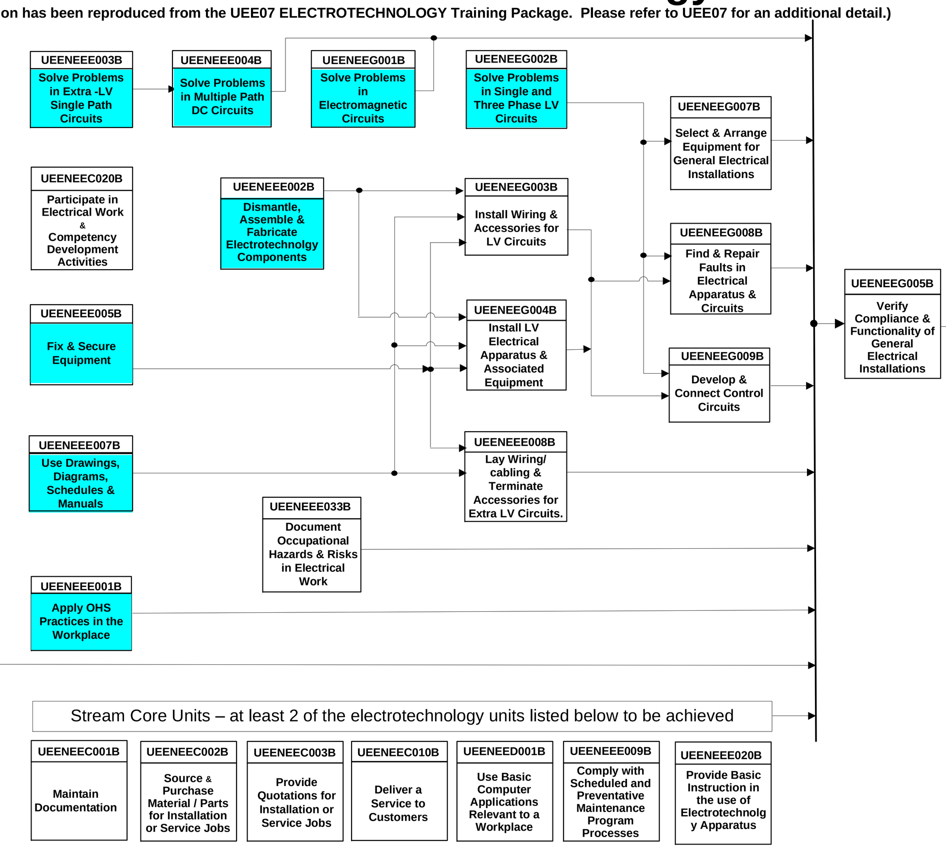
(This Qualification has been reproduced from the UEE07 ELECTROTECHNOLOGY Training Package. Please refer to UEE07 for an additional detail.)

Elective Competency Standard Units

To determine the necessary elective requirements you need to comply with Schedule 3 of the Electrotechnology Training Package.

The electives form an integral part of each qualification and as each qualification is tailored to meet that industry's needs the elective requirements may vary slightly.

Typically for Systems Electrician - 6 points are required

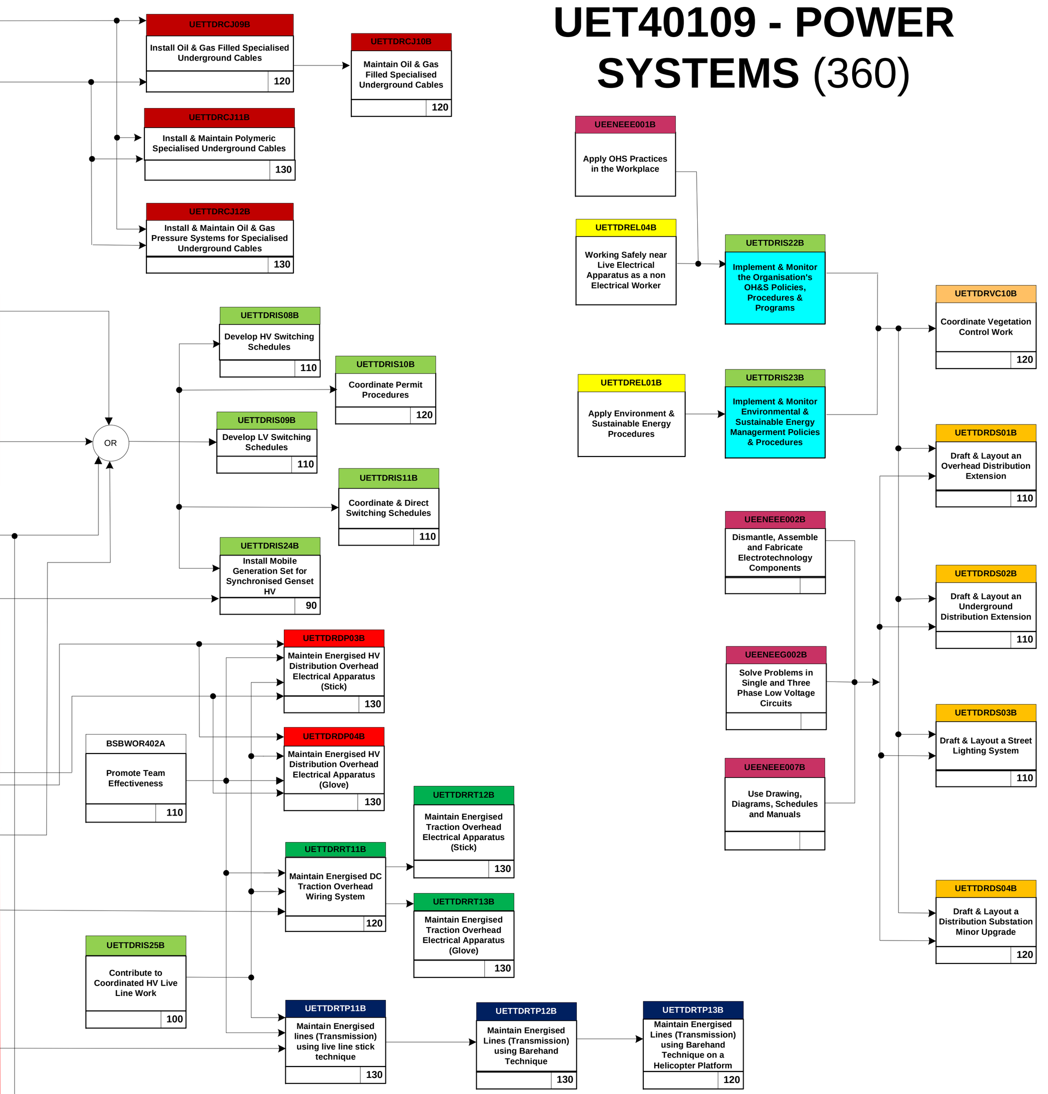


AQF4

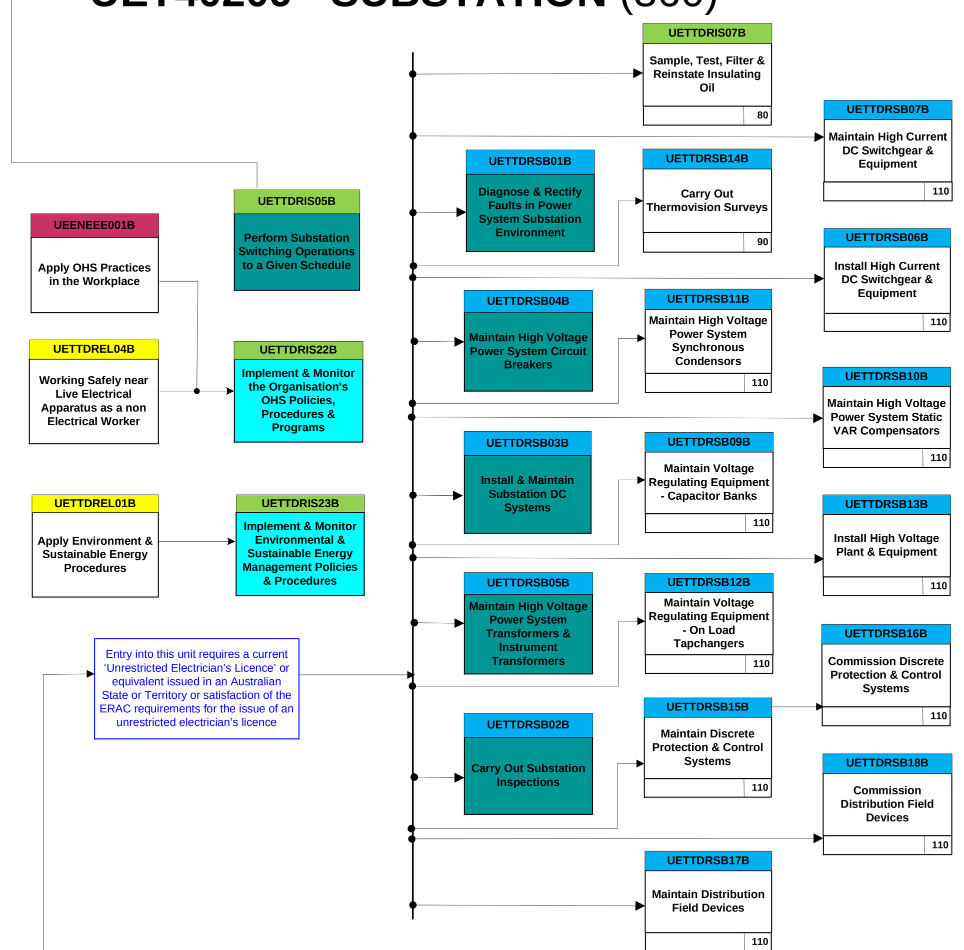
UET40109 - POWER SYSTEMS - CORE UNITS (All to be completed)	
UETTDRIS22B	IMPLEMENT AND MONITOR THE ORGANISATIONAL OHS POLICIES, PROCEDURES AND PROGRAMS
UETTDRIS23B	IMPLEMENT AND MONITOR THE ENVIRONMENTAL AND SUSTAINABLE ENERGY MANAGEMENT POLICIES AND PROCEDURES

UET40209 - SUBSTATION - CORE UNITS (All to be completed)	
UETTDRIS05B	PERFORM SUBSTATION SWITCHING TO A GIVEN SCHEDULE
UETTDRIS22B	IMPLEMENT AND MONITOR THE ORGANISATIONAL OHS POLICIES, PROCEDURES AND PROGRAMS
UETTDRIS23B	IMPLEMENT AND MONITOR THE ENVIRONMENTAL AND SUSTAINABLE ENERGY MANAGEMENT POLICIES AND PROCEDURES
UETTDRSB01B	DIAGNOSE AND RECTIFY FAULTS IN POWER SYSTEMS SUBSTATION ENVIRONMENT
UETTDRSB02B	CARRY OUT SUBSTATION INSPECTIONS
UETTDRSB03B	INSTALL AND MAINTAIN SUBSTATION DC SYSTEMS
UETTDRSB04B	MAINTAIN HV POWER SYSTEM CIRCUIT BREAKERS
UETTDRSB05B	MAINTAIN HV POWER SYSTEM – TRANSFORMERS & INSTRUMENT TRANSFORMERS

UET40109 - POWER SYSTEMS (360)



UET40209 - SUBSTATION (360)



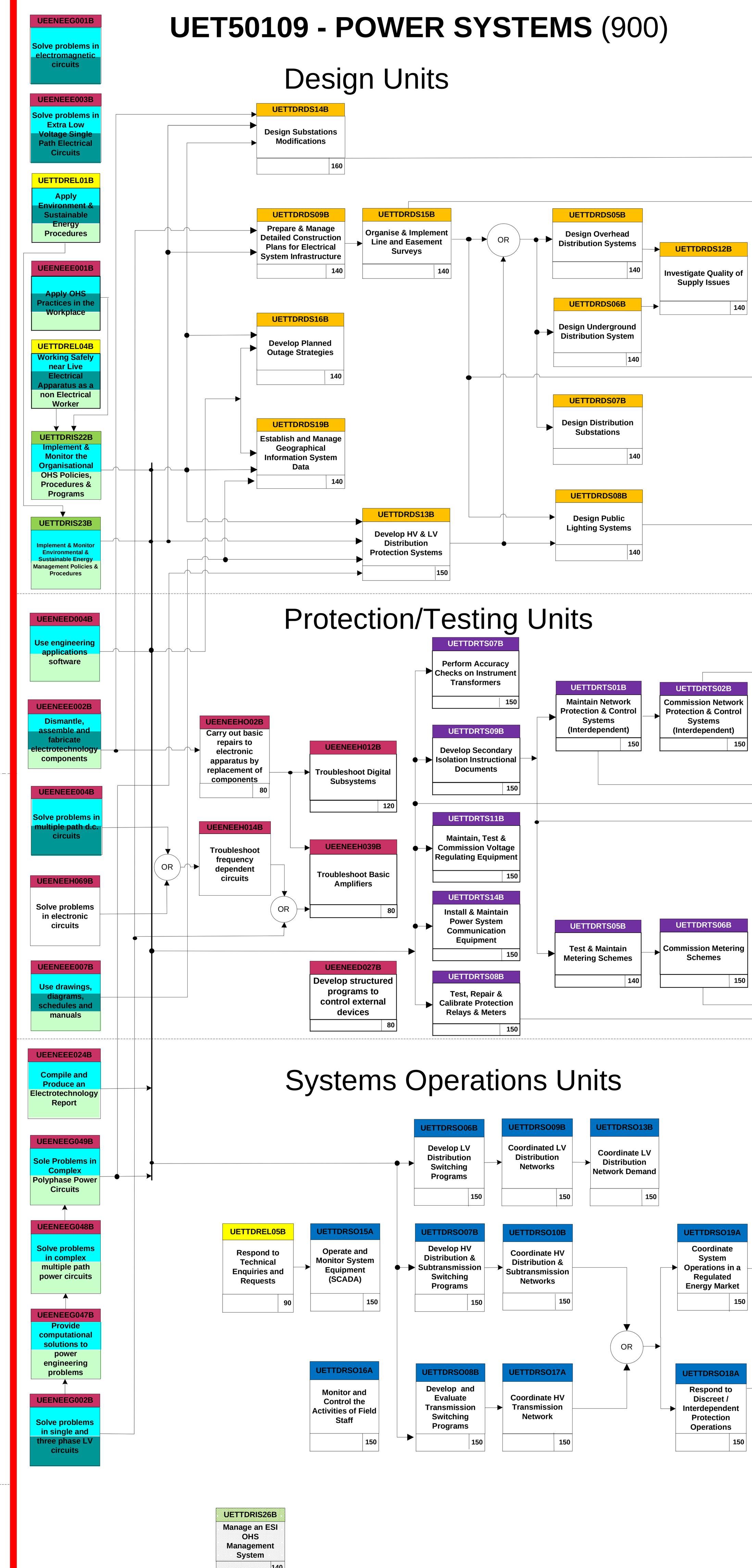
FRONTLINE
(Maximum points 220)

Code	Unit	Points
BSBWOR401B	Implement effective workplace relationships	110
BSBMGT402A	Implement operational plan	110
BSBINM401A	Implement workplace information system	110
BSBMGT403A	Implement continuous improvement	110
BSBWOR402A	Promote team effectiveness	110

AQF5

UET50109 - DIPLOMA - CORE UNITS – INDUSTRY PATHWAY (Requires Cert. III Qualification)	
UEENEED004B	USE ENGINEERING APPPLICATION SOFTWARE
UEENEEE024B	COMPILE AND PRODUCE AND ELECTROTECHNOLOGY REPORT
UEENEEG047B	PROVIDE COMPUTATIONAL SOLUTIONS TO POWER ENGINEERING PROBLEMS
UEENEEG048B	SOLVE PROBLEMS IN COMPLEX MULTIPLE PATH POWER CIRCUITS
UEENEEG049B	SOLVE PROBLEMS IN COMPLEX POLYPHASE POWER CIRCUITS
UETTDRIS22B	IMPLEMENT AND MONITOR THE ORGANISATIONAL OHS POLICIES, PROCEDURES AND PROGRAMS
UETTDRIS23B	IMPLEMENT AND MONITOR THE ENVIRONMENTAL AND SUSTAINABLE ENERGY MANAGEMENT POLICIES AND PROCEDURES
UET50109 - DIPLOMA - CORE UNITS – OPEN ENTRY (Requires units above plus the following)	
UEENEEE001B	APPLY OHS PRACTICES IN THE WORKPLACE
UEENEEE002B	DISMANTLE, ASSEMBLE & FABRICATE ELECTROTECHNOLOGY COMPOMENTS
UEENEEE003B	SOLVE PROBLEMS IN ELV SINGLE PATH ELECTRICAL CIRCUITS
UEENEEE004B	SOLVE PROBLEMS IN MULTIPLE PATH D.C. CIRCUITS
UEENEEE007B	USE DRAWINGS, DIAGRAMS, SCHEDULES & MANUALS
UEENEEG001B	SOLVE PROBLEMS IN ELECTROMAGNETIC CIRCUITS
UEENEEG002B	SOLVE PROBLEMS IN SINGLE & THREE PHASE LOW VOLTAGE CIRCUITS
UETTDREL01B	APPLY ENVIRONMENTAL & SUSTAINABLE ENERGY PROCEDURES
UETTDREL04B	WORKING SAFELY NEAR LIVE ELECTRICAL APPARATUS AS NON ELE WORKER

UET50109 - POWER SYSTEMS (900)

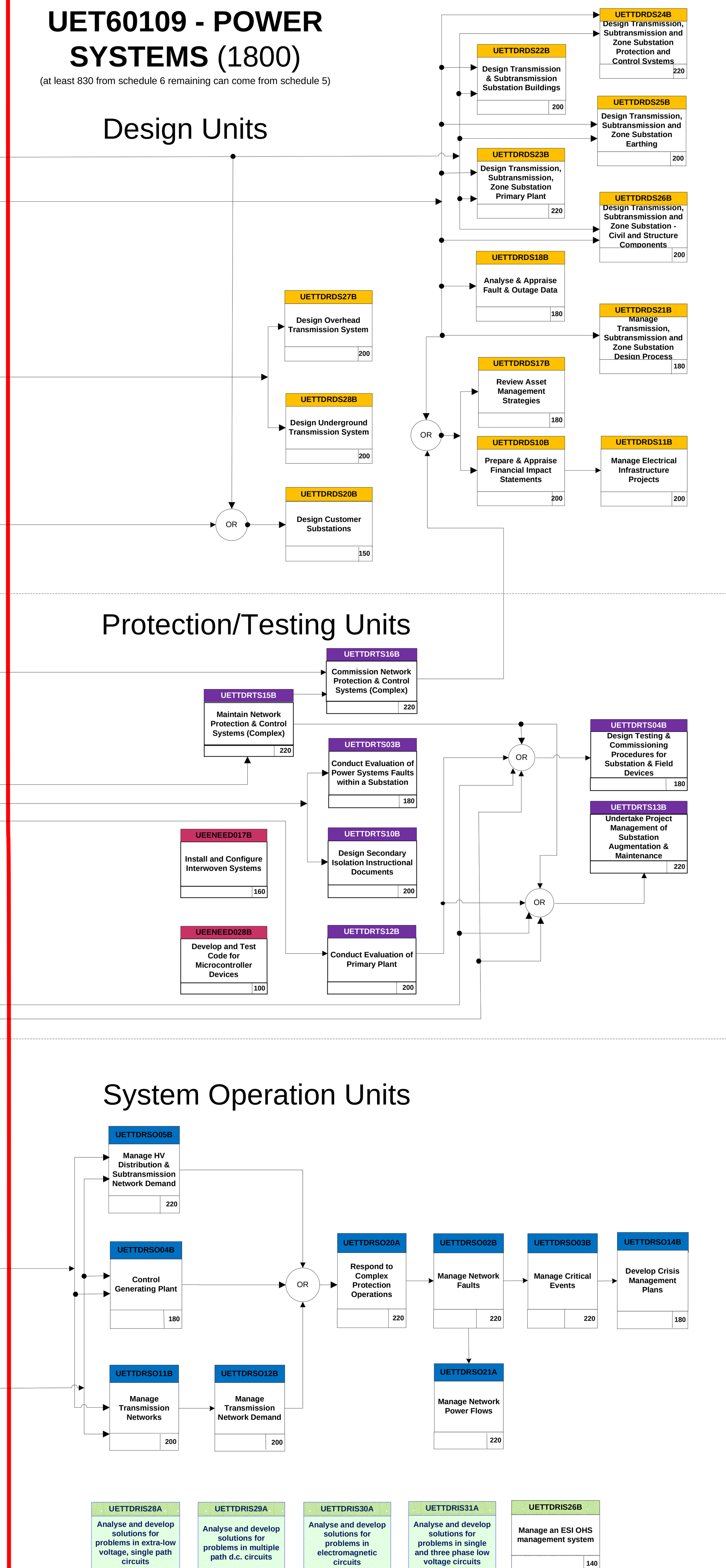


AQF6

UET60109 - ADVANCED DIPLOMA - CORE UNITS (All to be completed)	
UEENEED004B	USE ENGINEERING APPLICATION SOFTWARE
UEENEEE001B	APPLY OHS PRACTICES IN THE WORKPLACE
UEENEEE002B	DISMANTLE, ASSEMBLE AND FABRICATE ELECTROTECHNOLOGY COMPONENTS
UEENEEE007B	USE DRAWINGS, DIAGRAMS, SCHEDULES AND MANUALS
UEENEEE024B	COMPILE AND PRODUCE AN ELECTROTECHNOLOGY REPORT
UEENEEG047B	PROVIDE COMPUTATIONAL SOLUTIONS TO POWER ENGINEERING PROBLEMS
UEENEEG048B	SOLVE PROBLEMS IN COMPLEX MULTIPLE PATH POWER CIRCUITS
UEENEEG049B	SOLVE PROBLEMS IN COMPLEX POLYPHASE POWER CIRCUITS
UETTDREL01B	APPLY ENVIRONMENT AND SUSTAINABLE ENERGY PROCEDURES
UETTDREL04B	WORKING SAFELY NEAR LIVE ELECTRICAL APPARATUS AS A NON ELECTRICAL WORKER
UETTDRIS22B	IMPLEMENT & MONITOR THE ORGANISATION'S OHS POLICIES PROCEDURES & PROGRAMS
UETTDRIS23B	IMPLEMENT AND MONITOR ENVIRONMENTAL AND SUSTAINABLE ENERGY MANAGEMENT POLICIES AND PROCEDURES
UETTDRIS28A	ANALYSE AND DEVELOP SOLUTIONS FOR PROBLEMS IN ELV SINGLE PATH CIRCUITS
UETTDRIS29A	ANALYSE AND DEVELOP SOLUTIONS FOR PROBLEMS IN MULTIPLE PATH D.C. CIRCUITS
UETTDRIS30A	ANALYSE AND DEVELOP SOLUTIONS FOR PROBLEMS IN ELECTROMAGNETIC CIRCUITS
UETTDRIS31A	ANALYSE & DEVELOP SOLUTIONS FOR PROBLEMS IN SINGLE & THREE PHASE LV CIRCUITS

UET60109 - POWER SYSTEMS (1800)

(at least 830 from schedule 6 remaining can come from schedule 5)



Frontline Units for Diploma (Maximum 280 points)
(can also be imported into Advance Diploma Qualification)

Code	Unit	Points
BSBWOR501A	Manage personal work priorities and professional development	140
BSBMGT502B	Manage people performance	140
BSBMGT515A	Manage operational plan	140
BSBINM501A	Manage an information or knowledge management system	140
BSBCUS501A	Manage quality customer service	140
BSBSUS501A	Develop workplace policy and procedures for sustainability	140
BSBMGT516A	Facilitate continuous improvement	140
BSBINN502A	Build and sustain an innovative work environment	140
BSBLED501A	Develop a workplace learning environment	140
BSBWOR502A	Ensure team effectiveness	140
BSBFIM501A	Manage budgets and financial plans	140