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**TECHNIQUES FOR ELECTRICITY INSTALLATION AND CONTROL IN INDUSTRY**

**UET50312 Diploma of ESI – Power Systems Operations**

**AUSTRALIAN QUALIFICATION**

**CORE UNITS OF COMPETENCY**

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| UEENEED104A | Use engineering applications software on personal computers | |
| UEENEEE101A | Apply Occupational Health and Safety regulations, codes and practices in the workplace | |
| UEENEEE104A | Solve problems in d.c. circuits | |
| UEENEEE107A | Use drawings, diagrams, schedules, standards, codes and specifications | |
| UEENEEE124A | Compile and produce an energy sector detailed report | |
| UEENEEE125A | Provide engineering solutions for problems in complex multiple path circuits | |
| UEENEEE126A | Provide solutions to basic engineering computational problems | |
| UEENEEG101A | Solve problems in electromagnetic devices and related circuits | |
| UEENEEG102A | Solve problems in low voltage a.c. circuits | |
| UEENEEG149A | Provide engineering solutions to problems in complex polyphase power circuits | |
| UETTDREL11A | Apply sustainable energy and environmental procedures | |
| UETTDREL15A | Respond to power systems technical enquiries and requests | |
| UETTDREL16A | Working safely near live electrical apparatus | |
| UETTDRIS62A | Implement and monitor the power systems organisational OHS policies, procedures and programs | |
| UETTDRIS63A | Implement and monitor the power system environmental and sustainable energy management policies and procedures | |
| UETTDRSO45A | Operate and monitor system SCADA equipment | |
| **ELECTIVES UNITS OF COMPETENCY GROUP A** | | |
| BSBLED501A | Develop a workplace learning environment | 60 |
| **ELECTIVES UNITS OF COMPETENCY GROUP B** | | |
| UEENEEE102A | Fabricate, assemble and dismantle utilities industry components | 40 |
| UEENEEG006A | Solve problems in single and three phase low voltage machines | 80 |
| UEENEEH112A | Troubleshoot digital sub-systems | 80 |
| **ELECTIVES UNITS OF COMPETENCY GROUP C** | | |
| UEENEEI155A | Develop structured programs to control external devices | 40 |
| **ELECTIVES UNITS OF COMPETENCY GROUP D** | | |
| UETTDRDS43A | Develop high voltage and low voltage distribution protection systems | 150 |
| UETTDRSO36A | Develop low voltage distribution switching programs | 150 |
| UETTDRTS28A | Repair, test and calibrate protection relays and meters | 150 |
| TOTAL POINT VALUE OF GROUP A, B AND C ELECTIVE UNITS | | 750 |

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| **ADDITIONAL UNITS OF COMPETENCY TO ENSURE ADEQUATE COVERAGE OF INSTRUMENTATION AND CONTROL ELEMENTS** | | |
| UEENEEI101A | Use instrumentation drawings, specification, standards and equipment manuals | 0 |
| UEENEEI108A | Install instrumentation and control apparatus and associated equipment | 0 |
| UEENEEI150A | Develop, enter and verify discrete control programs for programmable controllers | 0 |
| **ADDITIONAL UNITS OF COMPETENCY TO MEET PREREQUISITE REQUIREMENTS** | | |
| UEENEEG106A | Terminate cables, cords and accessories for low voltage circuits | 0 |
| UEENEEH102A | Repair basic electronic apparatus faults by replacement of components | 0 |
| UEENEEE105A | Fix and secure electrotechnology equipment | 0 |
| TOTAL POINT VALUE OF ELECTIVE UNITS | | 750 |

