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**INDUSTRIAL ELECTRONICS**

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| **Trade** | | **Industrial Electronics** | |
| **AUSTRALIAN QUALIFICATION** | | UEE50511 Diploma of Electronics and Communications Engineering | |
| **CORE** | | | |
| UEENEEE038B | Participate in development and follow a personal competency development plan | | 20 |
| UEENEEE101A | Apply OHS regulations, codes and practices in the workplace | | 20 |
| UEENEEE117A | Implement and monitor energy sector OHS policies and procedures | | 20 |
| UEENEEE137A | Document and apply measures to control OHS risks associated with electrotechnology work | | 20 |
| UEENEEH167A | Commission electronics and communications systems | | 2O |
| UEENEEH168A | Modify-redesign of electronics and communications system | | 20 |
| UEENEEK145A | Implement and monitor energy sector environmental and sustainable policies and procedures | | 20 |
| TOTAL | | | **140** |
| **ELECTIVES GROUP A** | | | |
| UEENEEC002B | Source and purchase material/parts for installation or service jobs | | 20 |
| UEENEED101A | Use computer applications relevant to a workplace | | 20 |
| TOTAL | | | *40* |
| **ELECTIVES GROUP B** | | | |
| UEENEEE102A | Fabricate, assemble and dismantle utilities industry components | | 40 |
| UEENEEE104A | Solve problems in d.c. circuits | | 80 |
| UEENEEE105A | Fix and secure electrotechnology equipment | | 20 |
| UEENEEE107A | Use drawings, diagrams, schedules, standards, codes and specifications | | 40 |
| UEENEEH102A | Repairs basic electronic apparatus faults by replacement of components | | 40 |
| UEENEEH111A | Troubleshoot single phase input d.c. power supplies | | 40 |
| UEENEEH112A | Troubleshoot digital subsystems | | 80 |
| UEENEEH113A | Troubleshoot amplifiers in an electronic apparatus | | 80 |
| UEENEEH114A | Troubleshoot resonance circuits in an electronic apparatus | | 80 |
| UEENEEH115A | Develop software solutions for microcontroller based systems | | 60 |
| UEENEEH138A | Fault find and repair complex power supplies | | 40 |
| UEENEEH139A | Troubleshoot basic amplifier circuits | | 40 |
| UEENEEH150A | Assemble and set up basic security systems | | 80 |
| UEENEEH152A | Enter instructions and test wired and wireless security systems | | 40 |
| UEENEEH154A | Program and commission commercial security systems | | 60 |
| UEENEEH155A | Program and commission commercial access control security systems | | 60 |
| UEENEEH156A | Program and commission commercial security closed circuit television systems | | 60 |
| TOTAL | | | *940* |

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| **ELECTIVES GROUP C** | | | |
| UEENEEC004B | Prepare specifications for the supply of materials and equipment for electrotechnology projects | 40 | |
| UEENEEC005B | Estimate Electrotechnology Projects | 40 | |
| UEENEEE110A | Develop and implement energy sector maintenance programs | 60 | |
| UEENEEH181A | Design electronic printed circuit boards | 40 | |
| UEENEEI155A | Develop structured programs to control external devices | 40 | |
| UEENEEI157A | Configure and maintain industrial systems networks | 60 | |
| TOTAL | | *280* | |
| **ELECTIVES GROUP D** | |
| UEENEEE125A | Provide engineering solutions for problems in complex multipath circuits | 60 |
| UEENEEE126A | Provide solutions to basic engineering computational problems | 60 |
| UEENEEH145A | Develop engineering solutions to analogue electronic problems | 80 |
| UEENEEH148A | Design and develop advanced digital systems | 40 |
| UEENEEI156A | Develop and test code for microcontroller devices | 60 |
| TOTAL | | *300* |
| TOTAL ELECTIVE UNITS OF COMPETENCY | | **1560** |

**CRICOS No 00881F RTO No 0260. Training is deliver with Victorian and Commonwealth Government funding**

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| **AUSTRALIAN QUALIFICATION** | UEE30911 Certificate III in Electronics and Communications |

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| **CORE UNITS OF COMPETENCY** | | | |
| UEENEEC021B | | Participate in electronics and communications work and competency development activities | 60 |
| UEENEEE101A | | Apply Occupational Health and Safety regulations, codes and practices in the workplace | 20 |
| UEENEEE102A | | Fabricate, assemble and dismantle utilities industry components | 40 |
| UEENEEE104A | | Solve problems in d.c. circuits | 80 |
| UEENEEE137A | | Document and apply measures to control OHS risks associated with electrotechnology work | 20 |
| UEENEEH102A | | Repairs basic electronic apparatus faults by replacement of components | 40 |
| UEENEEH111A | | Troubleshoot single phase input d.c. power supplies | 40 |
| UEENEEH112A | | Troubleshoot digital sub-systems | 80 |
| UEENEEH113A | | Troubleshoot amplifiers in an electronic apparatus | 80 |
| UEENEEH114A | | Troubleshoot resonance circuits in an electronic apparatus | 80 |
| UEENEEH138A | | Fault find and repair complex power supplies | 40 |
| UEENEEH139A | | Troubleshoot basic amplifier circuits | 40 |
| UEENEEH146A | | Solve fundamental electronic communications system problems | 40 |
| UEENEEK142A | | Apply environmentally and sustainable energy procedures in the energy sector | 20 |
| TOTAL | | | *680* |
| ELECTIVE UNITS OF COMPETENCY - GROUP A | | | |
| UEENEED101A | | Use computer applications relevant to a workplace | 20 |
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| TOTAL GROUP A | | | *20* |
| ELECTIVE UNITS OF COMPETENCY - GROUP B | | | |
| UEENEEE105A | Fix and secure electrotechnology equipment | | 20 |
| UEENEEE107A | Use drawings, diagrams, schedules, standards, codes and specifications | | 40 |
| UEENEEH115A | Develop software solutions for microcontroller based systems | | 60 |
| UEENEEH150A | Assemble and set up basic security systems | | 80 |
| UEENEEH152A | Enter instructions and test wired and wireless security systems | | 40 |
| UEENEEH154A | Program and commission commercial security systems | | 60 |
| UEENEEH156A | Program and commission commercial security closed circuit television systems | | 60 |
| **TOTAL GROUP B** | | | 360 |
| **TOTAL ELECTIVE UNITS OF COMPETENCY** | | | *380* |
| **TOTAL** | | | **1060** |

