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| Title | **Perform corrective maintenance as part of electrical operations** |
| Level | **3** | **Credits** | **15** |

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| Purpose | This competency standard is intended for those who carry out electrical operations. People holding credit for this competency standard are able to: Plan and prepare for corrective maintenance; perform troubleshooting; carry out corrective maintenance procedures; and complete work. |

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| Classification ISCED | 0713 Electricity and energy |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **E1:** **Plan and prepare for corrective maintenance** | **P1-** Identify and obtain safety and other regulatory requirements for maintenance**P2-** Interpret circuit diagrams**P3-** Identify and select tools and equipment | **K1-** Safety requirements; Specifications; Hazard identification**K2-** Drawings and symbols specifications**K3-** Tools and equipment and calibration thereof |
| **E2:** **Perform troubleshooting** | **P1-** Check for safety hazards**P2-** Carry out diagnostic procedures**P3-** Identify faulty parts and/or equipment**P4-** Analyse system fault | **K1-** Troubleshooting requirements**K2-** Identification of electrical faults by checking shape, size and colour of components and parts; Measurement of electrical parameters; Safety precautions**K3-** Methods of fault identification in electrical components**K4-** System operations in an electrical environment |
| **E3:****Carry out corrective maintenance procedures** | **P1-** Dismantle faulty parts or components**P2-** Replace or repair faulty parts or components**P3-** Perform commissioning | **K1-** Dismantling procedures**K2-** Replacing and repairing procedures**K3-** Electrical load management; commissioning procedures |
| **E4:****Complete work** | **P1-** Complete work related documents and procedures**P2-** Perform final quality inspection**P3-** Clean up and store tools, equipment and materials | **K1-** Importance of documentation; Customer care procedures and techniques**K2-** Importance of quality; handing over to client**K3-** Waste disposal procedures; Care of tools and equipment |