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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 |