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| Title | **Perform preventive maintenance as part of electrical operations** | | |
| Level | **2** | **Credits** | **12** |

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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 preventive maintenance; perform routine inspections; carry out preventive maintenance; 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** |
| **C1:**  **Plan and prepare for preventive 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 |
| **C2:**  **Perform routine Inspection** | **P1-** Check for safety hazards  **P2-** Carry out procedures for routine checks  **P3-** Document results | **K1-** Inspection requirements  **K2-** Maintenance of electrical instruments and equipment  **K3-** Types of common faults of wiring; Load balance; Safety precautions  **K4-** Test and preventive reports |
| **C3:**  **Carry out preventive maintenance** | **P1-** Perform basic measurements tests  **P2-** Perform minor adjustments and calibrations  **P3-** Replace worn out or damaged parts  **P4-** Follow equipment manufacturer instructions | **K1-** Measurement and calculation of electrical parameters  **K2-** Basic operation of appliance and settings to adjust performance  **K3-** Communication skills |
| **C4:**  **Complete work** | **P1-** Complete work related documents and procedures  **P2-** Perform final quality inspection  **P3-** Clean up and store tools, equipment and materials  **P4-** Keep record of test & inspection | **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 |