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

|  |  |
| --- | --- |
| 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. |

|  |  |
| --- | --- |
| Classification ISCED | 0713 Electricity and energy |

|  |  |
| --- | --- |
| Available grade | Competent / Not yet competent |

|  |  |
| --- | --- |
| Modification history | N/A |

|  |  |  |
| --- | --- | --- |
| **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 |