|  |  |  |  |
| --- | --- | --- | --- |
| Title | **Carry out corrective maintenance procedures on electrical components in a MHP plant** | | |
| Level | **3** | **Credits** | **9** |

|  |  |
| --- | --- |
| Purpose | This competency standard is intended for those who perform corrective maintenance on electrical components in a Micro Hydel Power plant. People holding credit for this competency standard are able to: Plan and prepare for corrective maintenance; perform troubleshooting; carry out corrective 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** |
| **B1:**  **Plan and prepare for corrective maintenance** | Trainee will be able to:  **P1-** Identify and obtain safety and other regulatory requirements  **P2-** Obtain and interpret electrical component specifications and/or circuit diagrams  **P3-** Identify and select tools and equipment | **K1-** Safety requirements; Specifications; Hazard identification  **K2-** Drawing and symbol specifications  **K3-** Tools and equipment and calibration thereof |
| **B2:**  **Perform troubleshooting** | Trainee will be able to:  **P1-** Carry out safe diagnostic procedures for electrical components  **P2-** Identify faulty components  **P3-** Follow safe working procedures  **P4-** Report findings | **K1-** Troubleshooting procedures (visual inspection, testing)  **K2-** Condition assessment for electrical components  **K3-** Methods of fault identification on electrical components  **K4-** Safe working procedures |
| **B3:**  **Carry out corrective maintenance** | Trainee will be able to:  **P1-** Dismantle/Remove faulty electrical component  **P2-** Replace/Repair faulty electrical component  **P3-** Perform post-repair testing of electrical component/system  **P4-** Follow safe working procedures | **K1-** Dismantling/Removal procedures  **K2-** Replacing/Repairing procedures  **K3-** Post-repair testing procedures  **K4-** Safe working procedures |
| **B4:**  **Perform Final Check** | Trainee will be able to:  **P1-** Complete work related documents and procedures  **P2-** Perform final quality inspection  **P3-** Clean up and store tools, equipment and material | **K1-** Importance of documentation  **K2-** Importance of quality  **K3-** Waste disposal procedures; Care of tools and equipment |