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

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| 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. |

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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** |
| **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 |