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| Title | **Use and maintain electrical tools and equipment** | | |
| Level | **2** | **Credits** | **22** |

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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: Use electrical tools and equipment; maintain electrical tools, equipment and instruments; maintain batteries; and calibrate measuring equipment. |

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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** |
| **H1:**  **Use electrical tools and equipment** | **P1-** Identify and select tools, equipment and instruments  **P2-** Demonstrate safe use of tools, equipment and instruments | **K1-** Purpose of electrical tools, equipment and instruments  **K2-** Use of electrical tools, equipment and instruments |
| **H2:**  **Maintain electrical tools, equipment and instruments** | **P1-** Describe preventive maintenance procedures  **P2-** Maintain and/or replace tool insulation  **P3-** Clean and store electrical tools, equipment and instruments | **K1-** Preventive maintenance; Types of maintenance schedules or programmes for:  - Tools  - Equipment  - Instruments  - Machinery  - Facilities  **K2-** Types of insulation and reports  **K3-** Storage requirements |
| **H3:**  **Maintain batteries** | **P1-** Determine state of charge  **P2-** Maintain electrolyte level  **P3-** Charge batteries  **P4-** Determine gravity of electrolyte | **K1-** Types of batteries  **K2-** Role of electrolyte  **K3-** Charing procedures  **K4-** Use of hydrometer |
| **H4:**  **Calibrate measuring instruments** | **P1-** Check calibration of measuring instruments  **P2-** Document and interpret calibration procedure  **P3-** Calibrate measuring instrument | **K1-** Types and methods of calibration  **K2-** Types of calibration reports  **K3-** Types and methods of calibration |