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| Title | **Perform basic electrical works using hand tools** | | |
| Level | **1** | **Credits** | **8** |

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| Purpose | This competency standard is intended for those who perform basic electrical works using hand tools in a variety of contexts. People holding credit for this competency standard are able to: prepare for work; as per instruction, i.e., lay cables; joint cables and connections; and complete work etc. |

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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:**  **Prepare for work** | **Trainee will be able to:**  **P1-** Obtain job requirements from specifications/ instructions  **P2-** Identify auxiliary tools and/or equipment to carry out work processes in a safe manner  **P2-** select auxiliary tools and/or equipment to carry out work processes in a safe manner  **P3-** Identify and minimise hazards and risks associated with job requirements | **K1-** Safety procedures, including PPE  **K2-** Types of auxiliary tools and equipment  **K3-** Potential risks and hazards for self and other associated with electrical works |
| **H2:**  **Lay cables** | **Trainee will be able to:**  **P1-** Prepare for installation of cables  **P2-** Install conduit, GI pipes, PVCpipesand/or ducts  **P3-** Pull cables in conduits | **K1-** Chiselling, ducting, PVC and GIpipe wiring procedures  **K2-** K2- Laying procdure  **K3-** Procedure of pulling cables |
| **H3:**  **Joint cables and connections** | **P1-** Select jointing tools according to job requirements  **P2-** Apply safe cable jointing process  **P3-** Check for conformance with job requirements | **K1-** Types of different jointing methods:  - tin, crimped terminals  - ferrules and shrinking nut  - bolt & screw terminal  **K2**- Jointing procedures  **K3**- Safe working procedures |
| **H4:**  **Complete work** | **P1-** Complete work related documents and procedures  **P2-** Perform final quality inspection at work environment.  **P3-** Clean up and store tools, equipment and materials | **K1-** Importance of documentation  **K2-** Importance of quality assurance  **K3-** Waste disposal procedures; care of tools and equipment |