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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 |