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| Title | **Perform installation of electrical products and appliances** |
| Level | **2** | **Credits** | **5** |

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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: Plan and prepare for installation; install electrical products and appliances; carry out operational checks; 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** |
| **H1:****Plan and prepare for installation**  | **P1-** Identify and obtain safety and other regulatory requirements for installation**P2-** Interpret circuit diagram**P3-** Selecton and termination of electrical cables**P4-** Arrange earthing | **K1-** Safety requirements; Specifications; hazard identification**K2-** Drawing and symbol specifications**K3-** Types and size of cables; mounting of cables; tools for cable works**K4-** Earthing requirements (Methods, conductor specification) |
| **H2:****Install electrical products and appliances** | **P1-** Confirm installation specification**P2-** Position and configure product or appliance**P3-** Join cables and connections**P4-** Confirm installation | **K1-** Installation requirements**K2-** Importance of correct position and location; Safety precautions**K3-** Types and application of different jointing methods- tin, crimped terminals- ferrules and shrinking nut- bolt & screw terminal**K4-** Supervisor and/or client communication |
| **H3:****Carry out operational checks** | **P1-** Test and adjust component and/or parts**P2-** Confirm operation of electrical product or appliance**P3-** Explain operation of product or appliance to customer | **K1-** Functional tests and adjustments**K2-** Machine features**K3-** Communication skills |
| **H4:****Complete work** | **P1-** Complete work related documents and procedures**P2-** Perform final quality inspection**P3-** Clean up and store tools, equipment and materials | **K1-** Importance of documentation; customer care procedures and techniques**K2-** Importance of quality; handing over to client (Q&C)**K3-** Waste disposal procedures; care of tools and equipment |