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| Title | **Perform installation of electrical machines** |
| Level | **2** | **Credits** | **15** |

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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 machine; 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** |
| **J1:****Plan and prepare for installation** | **P1-** Identify and obtain safety and other regulatory requirements for installation**P2-** Select and termination electrical cables**P3-** Arrange earthing | **K1-** Safety requirements; Specifications; hazard identification**K2-** Types and size of cables; mounting of cables; tools for cable works**K3-** Earthing requirements |
| **J2:****Install electrical machine** | **P1-** Confirm installation specification & drawings **P2-** Arrangements  for loading & unloading of electric equipment **P3-** Position and configure machine**P4-** Joint cables and connections**P5-** Confirm installation | **K1-** Installation requirements**K2-** Importance of correct position and location; Safety precautions**K3-** Types and application of different jointing methods- tin- crimped lug, cable shoes, eyelets and tunnel terminals- ferrules and shrinking nut- bolt & screw terminal**K4-** Supervisor and/or client communication |
| **J3:****Carry out operational testing** | **P1-** Test and adjust component and/or parts**P2-** Confirm operation of electrical machine**P3-** Explain operation of machine to customer | **K1-** Functional tests and adjustments**K2-** Machine features**K3-** Communication skills |
| **J4:****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**K3-** Waste disposal procedures; Care of tools and equipment |