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| Title | **Install electrical machines** | | |
| Level | **2** | **Credits** | **12** |

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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; perform machine installation; carry out operational testing; 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-** Review layout plan and confirm location for installation  **P3-** Arrange tools and equipment  **P4-** Acquire work | **K1-** Safety requirements; Specifications; Hazard identification  **K2-** Importance of correct position and location – consequences of wrong position and location; Physical structure  **K3-** Tools and equipment requirements  **K4-** Purpose of work permit |
| **J2:**  **Perform machine installation** | **P1-** Interpret and confirm installation specifications  **P2-** Perform installation  **P3-** Perform pre-commissioning Test  **P4-** Confirm installation | **K1-** Installation requirements  **K2-** Installation requirements  **K3-** Pre-commissioning procedures  **K4-** Supervisor and/or client communication |
| **J3:**  **Carry out operational testing** | **P1-** Test and adjust component and/or parts  **P2-** Commission machine  **P3-** Perform permit closing | **K1-** Functional tests and adjustments  **K2-** Basic operation of machine and settings to adjust performance  **K3-** Safety procedures |
| **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 |