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| Title | **Assemble electrical machines** |
| Level | **2** | **Credits** | **23** |

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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 assembling; assemble machine 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** |
| **F1:****Plan and prepare for assembling**  | **P1-** Identify and obtain safety and other regulatory requirements for assembling**P2-** Prepare tools and equipment | **K1-** Safety requirements; Specifications; hazard identification**K2-** Types of tools, equipment and material |
| **F2:****Assemble machine** | **P1-** Confirm assembling specifications**P2-** Assemble and connect electrical circuit with ports**P3-** Joint cables and connections**P4-** Confirm assembling | **K1-** Assembling requirements**K2-** Concept of neutral, phase and earth; Input and Output Safety precautions**K3-** Types and application of different jointing methods- tin (solder), crimped terminals- ferrules and shrinking nut- bolt & screw terminal**K4-** Supervisor and/or client communication |
| **F3:****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 |