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| Title | **Assemble and install machines and mechanical components** |
| Level | **2** | **Credits** | **12** |

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| Purpose | This competency standard is intended for those who carry out machine assembling operations in a variety of contexts. People holding credit for this competency standard are able to: Plan and prepare for assembling; assemble and install machine and mechanical components,test operation, 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** | **Trainee will be able to:****P1-** Identify and obtain safety and other regulatory requirements for assembling**P2-** Prepare tools, equipment, machine and mechanical components to be assembled | **K1-** Safety requirements; Specifications; hazard identification**K2-** Types of tools, equipment and material |
| **F2:****Assemble and install machine and mechanical components** | **Trainee will be able to:****P1-** Interpret andconfirm assemblingand installation specifications**P2-** Assemble machine and mechanical components using tools in accordance with best industry practice**P3-** Carry out adjustment to assembled components and/or parts**P4-** Perform earthing**P5-**Perform pre-commissioning test**P6-** Confirm installation | **K1-** Assemblingand installation requirements**K2-** Assembling procedures, to include but not limited to:**-**levers, bearings, seals, shafts, motors/generators, chains, belts, pulleys, sprockets, frames, fasteners, keys.**K3-** Earthing requirements**K4-** Pre-commissioning procedure |
| **F3:****Test operation** | **Trainee will be able to:****P1-** Commission machine and mechanical components**P2-** Perform permit closing | **K1-** Functional tests and adjustments**K2-** Safety procedures**K3-** Basic operation of machine and settings for adjustment |
| **F4:****Complete work** | **Trainee will be able to:****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**K2-** Importance of quality**K3-** Waste disposal procedures; care of tools and equipment |