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

|  |  |
| --- | --- |
| 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. |

|  |  |
| --- | --- |
| Classification ISCED | 0713 Electricity and energy |

|  |  |
| --- | --- |
| Available grade | Competent / Not yet competent |

|  |  |
| --- | --- |
| Modification history | N/A |

|  |  |  |
| --- | --- | --- |
| **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 |