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| Title | **Install, commission and maintain solar water heating system** | | |
| Level | **3** | **Credits** | **20** |

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| Purpose | This competency standard is intended for those who carry out plumbing operations. People holding credit for this competency standard are able to: Plan and prepare for work; install appliance; and complete work. |

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| Classification ISCED | 0732 Building and civil engineering |

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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** |
| **C1:**  **Plan and prepare for work** | **P1-** Identify and obtain safety and other regulatory requirements for installation  **P2-** Interpret and confirm layout plan  **P3-** Identify and select tools and equipment  **P4-** Perform measurements | **K1-** Safety requirements; Specifications; Hazard identification  **K2-** Drawings and symbols specifications  **K3-** Tools and equipment for installing fittings and pipes  **K4-** Measuring units and conversions |
| **C2:**  **Install appliances** | **P1-** Check for safety hazards  **P2-** Join and install water stand, pipes and fittings  **P3-** Conduct operational testing | **K1-** Risk and hazards identification  **K2-** Joining techniques; Pipe and pipe fittings; Safety precautions  **K3-** Knowledge of appliance |
| **C3:**  **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 |