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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 |