|  |  |  |  |
| --- | --- | --- | --- |
| Title | **Apply a problem solving method** | | |
| Level | **1** | **Credits** | **4** |

|  |  |
| --- | --- |
| Purpose | This competency standard is intended to apply a problem solving method in a variety of contexts. People holding credit for this competency standard are able to: Define a problem; choose a method for solving an identified problem; and apply the problem solving method. |

|  |  |
| --- | --- |
| Classification ISCED | 0732 Building and civil engineering |

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

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

|  |  |  |
| --- | --- | --- |
| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **C1:**  **Define a problem** | **P1-** Define problem in terms its nature, parties involved, and the effects it may have  **P2-** Describe the problem in terms of ownership, responsibility, its sphere of influence and authority  **P3-** Identification of problems | **K1-** Problem solving methods:   * Brainstorming * Pros and cons * IDEAL * Research |
| **C2:**  **Choose a method for solving an identified problem** | **P1-** Describe problem solving method in terms of processes to be undertaken  **P2-** Select and describe problem solving method in terms of its suitability | **K1-** Problem solving methods:   * Brainstorming * Pros and cons * IDEAL * Research |
| **C3:**  **Apply the problem solving method** | **P1-** Apply chosen method  **P2-** Describe the outcome of the problem  **P3-** Implement a conclusion to the problem  **P4-** Reports & documents for future | **K1-** Problem solving methods:   * Brainstorming * Pros and cons * IDEAL * Research |