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| Title | **Perform basic concreting operations** | | |
| Level | **2** | **Credits** | **6** |

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| Purpose | This competency standard is intended for those who perform basic concreting operations in a variety of contexts. People holding credit for this competency standard are able to: Plan and prepare for work; dig excavation by hand; cast concrete; level concrete; 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** |
| **J1:**  **Plan and prepare for work** | **Trainee will be able to:**  **P1-** Identify and obtain safety requirements for excavation  **P2-** Interpret layout plan and confirm location for excavation  **P3-** Arrange tools and equipment  **P4-** Locate excavation site | **K1-** Safety requirements; Specifications; Hazard identification  **K2-** Layout plans and site drawings  **K3-** Tools and equipment requirements |
| **J2:**  **Dig excavation by hand** | **Trainee will be able to:**  **P1-** Use site pegs and profiles to identify excavation area  **P2-** Erect safety signs and barriers around excavation area  **P3-** Install trench and excavation support  **P4-**Perform safe working practice | **K1-** Safety signs and barricades  **K2-** Procedures for trench and excavation support |
| **J3:**  **Cast concrete** | **Trainee will be able to:**  **P1-** Mixmaterials according to job requirements and specifications  **P2-** Transport andplace concrete using appropriate tools and equipment  **P3-** Hand-compact poured concrete | **K1-** Concrete materials and mixing ratio  **K2-** Properties of concrete  **K3-** Concrete casting process  **K4-** Concrete reinforcement |
| **J4:**  **Level concrete** | **Trainee will be able to:**  **P1-** Hand-screed concrete to correct levels  **P2-** Finish concrete  **P3-** Cure concrete | **K1-** Tools for finishing concrete  **K2-** Curing procedures may include hosing, sprinklers, ponding, plastic sheeting |
| **J5:**  **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  **K2-** Importance of quality; handing over to client  **K3-** Waste disposal procedures; care of tools and equipment |