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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 |