## RIICWD501E - Prepare detailed design of foundations

**Elements and Performance Criteria**

|  |  |
| --- | --- |
| ELEMENT | PERFORMANCE CRITERIA |
| *Elements describe the essential outcomes.* | *Performance criteria describe the performance needed to demonstrate achievement of the element.* |
| 1. Plan detailed design of foundations | 1.1 Obtain, interpret, clarify and confirm work requirements  1.2 Access, interpret and apply documentation required for detailed foundation designs and confirm work activity is compliant  1.3 Prepare design plan according to resourcing and design requirements |
| 2. Carry out detailed design of foundations | 2.1 Obtain, interpret and analyse required data and identify design options for foundations according to job requirements  2.2 Interpret and analyse design options for foundations and recommend design option according to job requirements  2.3 Develop and complete detailed design of foundations according to job requirements  2.4 Prepare cost estimate for implementing design of foundations  2.5 Participate in review of design of foundations with required stakeholders  2.6 Complete required documentation for design of foundations according to workplace requirements  2.7 Communicate and coordinate with personnel involved in design process according to workplace requirements and within scope of own role  2.8 Gain design approval from required authorities |
| 3. Finalise design processes for foundations | 3.1 Confirm design records are filed according to workplace requirements  3.2 Complete design cost and reporting requirements and deliver to required stakeholders  3.3 Participate in performance review of design process according to workplace requirements  3.4 Review client feedback and contribute to design verification according to workplace requirements  3.5 Close out systems according to workplace requirements |
| 4. Support and review design implementation of foundations | 4.1 Provide clarification and advice to personnel implementing design as required to meet job requirements  4.2 Review design implementation and recommend changes as required to meet job requirements  4.2 Contribute to design validation process as required to meet job requirements |

**Foundation Skills**

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

|  |  |
| --- | --- |
| Skill | Description |
| Numeracy | Calculates resourcing requirements and performs mathematical calculations |
| Oral communication | Presents information and provides assistance using sector-specific vocabulary  Uses listening and questioning to clarify and confirm understanding |
| Reading | Identifies and interprets information from workplace procedures, documentation, legislation and regulations |
| Writing | Prepares and completes workplace reports using sector-specific vocabulary, grammatical structures and conventions |