



Australian Government

NWPNET006 Apply construction principles to civil works in the water industry

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to apply construction principles to civil works in the water industry.

It includes the fundamental principles and concepts associated with planning, estimating and costing for the preparation and interpretation of tender documents, costs estimates and reporting actual versus estimated project costs. It also includes documenting people, plant, equipment and processes employed in the water industry.

This unit applies to para-professionals in a water operations environment where civil construction is undertaken for new or maintenance works.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Networks

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|--|---|
| 1 Identify civil project | <ul style="list-style-type: none">1.1 Identify and implement work health and safety (WHS) and environmental requirements for the civil work area1.2 Identify hazards, assess risks and implement control measures1.3 Identify planning, estimating, costing and construction requirements from project documentation, work requests, maintenance requests and discussions with relevant personnel1.4 Identify construction project materials from project documents, work requests, maintenance requests and discussions with relevant personnel1.5 Evaluate civil design references to complete planning, estimating, costing and construction principles according to workplace procedures1.6 Obtain resources and equipment needed for work and check for correct operation according to workplace procedures1.7 Consult relevant personnel to ensure civil work is co-ordinated effectively at the work site1.8 Conduct community and stakeholder impact assessments according to workplace procedures |
| 2 Apply construction principles to civil projects | <ul style="list-style-type: none">2.1 Apply planning, estimating, costing and construction principles according to workplace procedures2.2 Use civil design references according to manufacturer specifications, techniques and workplace procedures2.3 Record, analyse and apply outcomes according to workplace procedures2.4 Select methods for dealing with unexpected situations on the basis of discussions with appropriate personnel, job specifications and workplace procedures2.5 Communicate with community and stakeholders according to workplace procedures |
| 3 Compile, document and report results | <ul style="list-style-type: none">3.1 Record, analyse and report results according to project brief and workplace procedures3.2 Maintain and store civil design references according to |

industry standards and workplace procedures

3.3 Store and archive results according to workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>