



Australian Government

Assessment Requirements for AHCSAW504 Design control measures and structures

Release: 1

Assessment Requirements for AHCSAW504 Design control measures and structures

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has produced at least one design for erosion and sediment control measures and structures, and has:

- identified control measures for a specified situation
- applied design procedures and prepared specifications
- costed the project and provided recommendations according to budget
- used computer aided design (CAD) program to create the design
- determined design specifications according to industry standards
- developed design plan to meet planned sediment and erosion control criteria
- verified design with stakeholders and for compliance with sustainability principles.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- erosion control and design principles:
 - soils and soil formation
 - levels and levelling
 - earthmoving principles
 - total catchment issues
 - managing peak water flows
- state and territory legislative requirements for design of control measures, including heritage and cultural regulations
- sub-surface and surface drainage principles and systems
- environmental issues related to the design
- limitations of design aids provided for industry
- CAD software for design.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated for a specified site for erosion and sediment control, or in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - digital technology with CAD software
- specifications:
 - workplace documents, policies and procedures
 - catchment data for determining the design characteristics
 - legislation and codes of practice for civil design work
- relationships:
 - client/stakeholder
 - senior manager.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>