



Australian Government

Assessment Requirements for MSS024032 Document simple geological information for a site

Release: 1

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Modification History

Release 1. Unit code changed. Unit title changed. Application changed. Performance Criteria changed. Foundation Skills populated. Assessment Requirements changed. Workplace outcome changed. Supersedes and is not equivalent to MSS024020 Recognise common geological landforms and samples.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- for at least 2 sites:
 - document simple geological information
 - identify at least 2 specimens of rock or minerals
 - classify at least 2 soil samples
 - identify geological factors that can affect site revegetation and rehabilitation.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- structure of the earth's core, crust and major components
- geomorphology and landforms, including agents of erosion and transportation, stability of rocks and minerals in different environments and depositional processes
- regolith, including physical and chemical weathering, climatic effects, stability of minerals, weathering processes, soil formation, common soil types and composition
- rock cycle
- fundamentals of:
 - igneous rocks, including origin of magma, movement of magma, volcanic, plutonic, types of volcanoes and simple tectonic setting
 - sedimentary rocks, including clastic, chemical, organic types, grain size and composition, sorting, roundness, lithification, sedimentary structures and environments of deposition
 - metamorphic rocks, including regional, contact, dynamic metamorphic zones, rock textures and fabrics
- structural geology concepts including folds, faults, tilts and uplifts
- overview of geological time, including eras, periods, relative time, stratigraphic methods for establishing relative ages of strata, and radiometric dating
- fundamentals of palaeontology, including preservation of fossils and their role in dating strata

- links between local geology, climate, topography and living components of ecosystems
- equipment commonly used to collect soil and handheld rock samples
- geological sampling and in-field test methods routinely used in job role, including:
 - pre-use checks and safe operating procedures for sampling and test equipment
 - sampling procedures
 - purpose, principles and measurement steps of testing
 - calculation steps to provide results
 - expected values for sample type
- common site hazards and control measures
- health, safety and environment requirements, including field safety and survival principles.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of facilities, equipment and resources, including:
 - maps, photos, diagrams of site
 - classification charts and tables for rocks, minerals and soils
 - relevant survey, sampling and testing equipment and methods
- modelling of industry operating conditions, including:
 - access to site/s.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>