



Australian Government

Assessment Requirements for MSS024019

Collect and evaluate meteorological data

Release: 1

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Modification History

Release 1. Updated unit code. Changes to performance criteria. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Performance Evidence

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

- sighted and set up basic ground level meteorological monitoring equipment and collected reliable field data on at least 2 occasions
- analysed, interpreted and summarised the key features of at least 2 sets of meteorological data.

Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- site and meteorological instrumentation installation considerations, including:
 - topography
 - vegetation and built structures
 - exposure
 - availability of services
 - site security
- purpose and objectives of meteorological monitoring tasks, including:
 - information and analysis required
 - end users of information
 - significance of outcomes for broader programs
- operation, calibration and maintenance of meteorological equipment and instruments.
- distinction between weather and climate and an awareness of climate change science
- composition and structure of the atmosphere, especially the lower atmosphere
- solar energy spectrum and link to atmospheric conditions
- seasonality, effects of latitude and continental geography
- atmospheric motion (horizontal and vertical)
- lifting (orographic, convective and frontal)
- principles of pressure, temperature and volume
- high and low pressure cell formation
- weather effects (including precipitation, temperature and wind strength and direction)
- local wind effects (including sea breeze, city breeze, katabatic winds and anabatic winds)

- forms of atmospheric moisture and humidity
- atmospheric conditions related to wind direction
- measurement of atmospheric conditions (including precipitation, temperature, humidity, wind speed and direction)
- interpretation of weather maps (including symbols used, terminology, interpretation and forecasts)
- historical and geographic comparison of weather data
- scalar and vector wind speed and direction calculations
- wind run
- effects of instrument set-up, including different sampling intervals and averaging times.
- meteorological data collection hazards.

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:
 - access to sites and vehicle transport
 - meteorological monitoring equipment and instruments
 - site information and history, maps, aerial photos; workplace procedures governing siting and operation of meteorological monitoring equipment and data collection; and equipment manuals.

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

Links

The MSS Sustainability Companion Volume implementation Guides are available from VETNet: -

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