



Australian Government

Assessment Requirements for MSS024031

Collect and evaluate meteorological data

Release: 1

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Modification History

Release 1. Unit code changed. Application changed. Foundation Skills populated. Assessment Requirements changed. Supersedes and is equivalent to MSS024019 Collect and evaluate meteorological data.

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:

- position and set up basic ground level meteorological monitoring equipment to collect reliable field data on at least 2 occasions
- verify and interpret at least 2 sets of meteorological data.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- siting and installation considerations for meteorological instrumentation, 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 suitable facilities, equipment and resources, including:
 - meteorological monitoring equipment and instruments
 - workplace procedures governing siting and operation of meteorological monitoring equipment and data collection
- site information and history, maps, aerial photos
- 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>