



Australian Government

Assessment Requirements for MSS025026

Perform sampling and testing of air

Release: 1

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Modification History

Release 1. Unit code changed. Elements changed. Application changed. Performance Criteria changed. Foundation Skills populated. Range of Conditions removed. Assessment Requirements changed. Supersedes and is equivalent to MSS025009 Perform sampling and testing of air.

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:

- collect, preserve and label a set of representative air samples for at least one site in accordance with sampling plan
- prepare air (sub)samples and conduct, using specified test methods:
 - at least 2 field tests
 - at least 2 laboratory tests
- process and interpret data from at least 2 tests, including estimation of measurement uncertainty.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- scientific terminology used in job role covering atmospheric science, air measurement and air pollution
- structure, circulation and composition of the atmosphere
- atmospheric stability, lapse rates and inversions
- localised meteorology and dispersion of air pollutants
- air pollutants and concentration parameters in indoor, ambient and workplace contexts including at least 2 from each of the following types:
 - inorganic gases
 - organic gases
 - particulates
 - air toxics
- principles of air quality sampling and analysis, methods and standards
- functions and operating principles of and sampling equipment related to at least 4 of the following air quality instruments:
 - continuous gas monitors:
 - gas chromatographs

- mass spectrometers
- atomic absorption spectrophotometers
- infrared spectrophotometers
- UV-visible spectrophotometers
- tapered element oscillating microbalance (TEOM)
- beta gauges
- particle counters
- portable (handheld) gas monitors
- legislation, regulations, standards, statutory limits and codes of practice which specify air pollution and air quality monitoring requirements
- field sampling and monitoring procedures including labelling, preservation, storage and traceability
- calculation of measurement uncertainty as relevant to tests being performed
- relevant hazards and health, safety and environmental requirements, including field safety principles.
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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 but not limited to:
 - sampling plan
 - test methods and/or procedures
 - instrument calibration procedures, where relevant
- modelling of industry operating conditions, including but not limited to:
 - indoor, ambient and workplace
 - field and laboratory.

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>