



Australian Government

Assessment Requirements for MSS025010

Assist with odour source assessment

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSS025010A Assist with odour source assessment

Performance Evidence

Evidence of competence in this unit must satisfy all of the requirements of the elements and performance criteria, and include demonstration of:

- collecting and preparing odour samples from at least one (1) site in accordance with standard methods or workplace procedures
- selecting and training odour panellists for olfactometry measurements in accordance with standard methods or workplace procedures on at least one (1) occasion (under supervision)
- conducting laboratory olfactometry measurements in accordance with standard methods or workplace procedures on at least two (2) occasions
- planning and preparing for field/laboratory activities, including researching and summarising legislative/regulatory requirements, site history and operations, existing data and complaints, and/or reports
- accurately interpreting legislative/regulatory requirements, client requests, sampling/monitoring plans, test methods and workplace procedures
- undertaking site reconnaissance and identifying potential odour sources and current controls (under supervision)
- selecting/designing appropriate sampling and monitoring strategies (under supervision)
- selecting and checking all required field/laboratory equipment, test instruments and materials
- using sampling equipment to obtain reliable, representative odour samples in accordance with sampling/monitoring procedures and paying close attention to any pre-treatment, containers, preservation, storage, labelling and traceability requirements
- identifying atypical odour samples and taking appropriate action
- selecting panellists by using standardised tests and given criteria to determine their odour threshold and ongoing olfactometry performance (under supervision)
- providing accurate information about use of objective odour observation techniques, odour descriptors, olfactometry procedures and test equipment to olfactometry panellists
- listening and communicating effectively with clients and panellists
- using olfactometry equipment correctly and closely monitoring panellist's performance and testing environment to obtain valid and reliable data
- identifying/rectifying basic equipment faults
- processing odour data and analysing the conduct of measurements and reliability of results before confirming their acceptability
- providing accurate, complete records of odour sampling, site observations and olfactometry data including any errors and/or unexpected variations

- presenting odour results in the required format and timeframe and reporting on their significance
- seeking advice when issues/problems are beyond scope of competence/responsibility
- working safely for the protection of self and others.

Knowledge Evidence

Must provide evidence that demonstrates knowledge of:

- scientific terminology, such as olfactometry, odour threshold, odour intensity, hedonic tone, odour character or quality, odour nuisance, dilution to threshold, odour concentration, odour units (ou) and commonly used odour descriptors
- basic principles of atmospheric chemistry, odorous compound families and meteorology
- calculation of flow rates, dilution factors, odour emission rates and uncertainties
- basic details of chemical/process engineering relevant to site
- regulatory/licensing requirements that apply to site
- nature of odour complaints, possible health effects, typical community concerns and environmental issues about odour
- workplace procedures for odour sampling/monitoring and test methods, selection of odour panellists
- set-up and operation of sampling equipment and dynamic olfactometers in the laboratory, function of key components, simple troubleshooting and calibration checks
- control of the olfactory testing environment (e.g. conditions that can dull sensitivity)
- likely causes of variation in odour results and their control
- reporting requirements, protocols for the confidentiality and security of information and communicating with the community and media
- relevant hazards, health, safety and environment requirements.

Assessment Conditions

- Judgement of competence must be based on holistic assessment of the evidence. Assessment methods must confirm consistency of performance over time, rather than a single assessment event.
- This unit of competency is to be assessed in the workplace, or a simulated workplace environment. A simulated workplace environment must reflect realistic operational workplace conditions that cover all aspects of workplace performance, including the environment, task skills, task management skills, contingency management skills and job role environment skills.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Knowledge evidence may be collected concurrently with performance evidence or through an independent process such as workbooks, written assessments or interviews (provided a record is kept in each case).
- Holistic assessment methods include:

- review of odour data, results and records prepared by the candidate
- feedback from supervisors that the candidate consistently follows workplace procedures and standard test methods, works safely and provides reliable results within the agreed timeframe
- feedback from panellists and/or clients about the candidate's ability to respond to enquiries and provide accurate information
- oral and/or written questions to check the candidate's understanding of odour sampling, odour measurements and calculations, conducting olfactometry testing and instructing panellists.
- Access is required to all instruments, equipment, materials, workplace documentation, procedures, and specifications associated with this unit including, but not limited to:
 - odour sampling and measuring equipment
 - standard laboratory with facilities, equipment, materials and reagents required for olfactory testing
 - work program, workplace procedures, codes of practice, site maps, odour sampling/monitoring plans, test methods and field protocols.
- Assessors must satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator.
- The assessor must demonstrate both technical competency and currency.
- Technical competence can be demonstrated through:
 - relevant VET or other qualification/Statement of Attainment AND/OR
 - relevant workplace experience
- Currency can be demonstrated through:
 - performing the competency being assessed as part of current employment OR
 - having consulted with an organisation providing environmental monitoring, management or technology related services about performing the competency being assessed within the last twelve months.

Links

Companion Volume implementation guides are found in VETNet -

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