



Australian Government

Assessment Requirements for MSS024005 Collect spatial and discrete environmental data

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSS024005A Collect spatial and discrete environmental data

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 spatial and discrete environmental data that meets specifications on at least two (2) occasions
- accurately interpreting instructions, specifications, procedures and manuals
- planning and organising resources for efficient data collection
- reading and interpreting maps and aerial photos, including relating direction and position on ground to visual representations
- setting up and operating handheld GPS equipment and environmental instruments correctly
- using computer equipment to reliably collect, manipulate and file spatial/environmental data
- recognising and recording atypical data
- using basic troubleshooting and problem-solving methods to check/address atypical data
- checking the acceptability of environmental data using specified quality tests or procedures
- presenting results and preparing technical reports in accordance with workplace procedures
- 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:

- environmental terms, concepts and principles relevant to data collection
- legislative requirements, standard methods and/or workplace procedures governing data collection, processing and reporting
- operating principles of GPS equipment and environmental instruments used in job role, including set-up and optimisation methods and equipment limitations
- uncertainty, accuracy and precision of measurements and data quality requirements
- data formats
- methods for data processing, manipulation and management
- relevant hazards, health and safety and site environmental management 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 environmental data, results and site reports generated by the candidate
 - feedback from supervisors about the candidate's ability to safely collect reliable environmental data using available resources and within the agreed timeframe
 - observation of candidate collecting data with a focus on:
 - general site reconnaissance and observations
 - set-up and use of equipment
 - accurate data recording
 - problem solving/troubleshooting
 - safe work practices
 - oral and/or written questions to assess the candidate's understanding of workplace procedures relating to data collection, processing and reporting; use of equipment; and interpretation of data.
- Access is required to all instruments, equipment, materials, workplace documentation, procedures, and specifications associated with this unit including, but not limited to:
 - access to suitable sites and a vehicle
 - sampling/monitoring equipment and instruments, GPS receivers and related GPS software, camera; consumables; calculator, computer and relevant software or laboratory information system
 - documentation, including site information and history, maps, aerial photos; site environmental management plans, codes of practice and field protocols; equipment manuals, workplace procedures and test/survey methods.
- 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

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>