



Australian Government

Assessment Requirements for UEGNSG040

Use a portable detector to locate a combustible gas escape

Release: 1

Assessment Requirements for UEGNSG040 Use a portable detector to locate a combustible gas escape

Modification History

Release 1. This is the first release of this unit of competency in the UEG Gas Industry Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying relevant workplaces safety requirements, including using risk control measures
- applying sustainable energy principles and practices
- communicating effectively with relevant stakeholders
- completing workplace documentation
- determining if the relevant area is safe to enter based on combustible gas levels in accordance with workplace procedures
- interpreting maps and asset records
- monitoring gases and workplace hazards
- reading, interpreting and converting gas readings and indications, including:
 - identifying highest reading locations
 - locating and pinpointing gas escapes
 - recording gas detection readings
 - verifying actual escape location
- using environmental indicators to assist in gas detection
- using personal protective equipment (PPE) required for conditions
- using portable gas detection devices, including:
 - device maintenance
 - ensuring device/equipment calibration and keeping records
 - start-up and shutdown procedures
 - storage requirements.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- factors affecting the frequency of monitoring
- gas and vapour properties

- hazards, risk assessments and control measures
- combustible gas, characteristics and properties, including but not limited to natural gas, propane and hydrogen
- portable gas detection devices, including:
 - purpose, types and applications
 - start-up and shutdown procedures
 - use of gas detection equipment
 - calibration requirements and methods
 - storage requirements
- probable areas that gases could accumulate
- relevant legislations, regulations, industry standards and codes of practices
- relevant manufacturer instructions
- relevant PPE
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - legislated industry/technical specific requirements
 - workplace safety procedures
 - manufacturer requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- signs, symbols, terminology and legends used
- techniques to locate and pinpoint gas escapes.

Assessment Conditions

As a minimum, assessors and assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

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.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>