



Australian Government

Assessment Requirements for UEGNSG229

Prepare simple drawings of as laid gas mains and services

Release: 1

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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 work health and safety (WHS)/occupational health and safety (OHS) requirements
- applying sustainable energy and environmental principles and practices
- completing work and relevant documentation
- completing relevant details on the drawing, including:
 - pipe size
 - pressure range
 - location
 - diameter
 - material
 - fittings
 - off-sets
 - distances
- conducting site inspections
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- determining cross reference points
- drawing as laid pipework to represent appropriate scale, perspective, dimension and volume
- finalising drawings
- identifying various gas pressures
- identifying coding for different pressures
- identifying various pipe materials
- interpreting symbols and abbreviations
- identifying and interpreting relevant gas drawings, including:
 - district plans
 - mains detail plans
 - industrial services plans

- gas easement drawings
- transmission pipeline plans
- identifying and interpreting relevant plans, including:
 - Dial Before You Dig plans
 - drain plans
 - power plans
 - telecommunication plans
 - water plans
- preparing drawing of a gas main or service
- using legend to determine specifications.

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:

- as laid technical drawings for gas pipework
- cross reference points
- different gas related drawings, including:
 - district plans
 - industrial drawings
 - easement drawings
 - gas mains detail plans
 - gas pipeline route maps and alignment sheets
- drawing conventions and features
- factors that may impact on technical drawings, including:
 - orientation
 - altering landscapes
 - building structures
 - temporary land marks
- fittings that effect the off-set or depth of the pipework
- gas mains and services as laid drawings
- key features, symbols and abbreviations on site plans
- measuring devices to record off-sets
- problem-solving techniques
- relevant drawing equipment, tools, materials, drawings and personal protective equipment (PPE)
- relevant legislation, standards, codes, regulations and procedure requirements
- relevant manufacturer specifications
- relevant WHS/OHS legislated requirements, including:
 - hazard identification and reporting

- implementing risk control measures
- relevant workplace documentation, drawings and forms
- relevant workplace policies and procedures.

Assessment Conditions

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

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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>