



Australian Government

UEGNSG229 Prepare simple drawings of as laid gas mains and services

Release: 1

UEGNSG229 Prepare simple drawings of as laid gas mains and services

Modification History

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

Application

This unit involves the skills and knowledge required to produce drawings for as laid, new and altered gas installations, mains and services.

It includes preparing drawings of newly constructed or altered pipework that is required to be recorded for future locating.

This unit does not include complex drafting skills.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Gas Distribution

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan to prepare simple drawings of as laid gas mains and services

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) workplace procedures and environmental measures for the site are identified, obtained and applied
- 1.2** Types of drawings required and key features, symbols

and abbreviations for each type of plan and drawing used in the gas industry are identified in accordance with the scope and standard of work being undertaken

- 1.3 Drawing requirements and needs are determined from work instructions and confirmed with relevant person/s in accordance with workplace procedures
 - 1.4 Client issues in relation to the drawing requirements are clarified and resolved in accordance with workplace procedures
 - 1.5 Equipment, tools and apparatus for producing drawings are identified, obtained and checked for correct operation prior to commencing work
- 2 **Prepare drawings of as laid gas mains and services**
 - 2.1 Site inspection is conducted, as required, and factors that may impact on technical drawings, including orientation, altering landscapes, building structures or temporary land marks are identified
 - 2.2 Starting point and cross reference points are established and measurements from the starting point, distances and off sets taken and recorded in accordance with job requirements and workplace procedures
 - 2.3 As laid pipework is drawn to scale on graph paper using industry standard drawing conventions in accordance with relevant codes and technical industry standards
 - 2.4 Fittings that effect the off-set or depth of the pipework, including elbows and tees, are indicated on the drawing as required
 - 2.5 Additional fittings that need to be recorded in line with drawing specifications, including in-line valves and tapping tees, are indicated on the drawing, as required
 - 2.6 All dimensions, including off-sets, distances, directions, pipe diameter, symbols and abbreviations are included on the drawing in accordance with job specifications and workplace procedures
 - 2.7 Standard drawing conventions are used to correct original job drawing to show final as laid arrangement in accordance with workplace procedures
 - 2.8 Quality and safety checks of work and testing of pipework is conducted in accordance with industry

standards, work instructions and workplace procedures

3 Complete work and relevant documentation

- 3.1** Additional documentation is completed, including district plan number, network area, street name, pressure ratings, pipe size and type, date laid and additional comments, as required, in accordance with job requirements
- 3.2** Drawings are finalised and signed off/closed in accordance with workplace procedures
- 3.3** Tools, equipment and any surplus resources and materials are cleaned, checked and securely stored in accordance with workplace procedures
- 3.4** Appropriate person/s are notified of work completion in accordance with workplace procedures
- 3.5** All drawings and forms are completed and submitted to appropriate person/s in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEG Gas Industry Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG229A Prepare simple drawings of as laid gas mains and services.

Links

Companion Volume Implementation Guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>