



**Australian Government**

# **UEGNSG223 Construct and lay steel gas distribution pipelines**

**Release: 1**

# UEGNSG223 Construct and lay steel gas distribution pipelines

## 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 construct and lay steel gas distribution pipelines.

It includes connecting steel pipe to steel gas distribution mains pipelines, using relevant tools and equipment, completing necessary documentation, and working safely in accordance with workplace procedures and relevant legislative, standard and code requirements.

This unit excludes steel welding.

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 Prepare to construct and lay steel gas distribution mains**

### 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 Job requirements, including alignment of main and services and workplace procedures for the site, are discussed with relevant person/s to confirm the work schedule
  - 1.3 WHS/OHS, environmental and sustainable energy policies and procedures are obtained and applied in accordance with workplace procedures
  - 1.4 Hazards are identified, WHS/OHS risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
  - 1.5 Scope of work and level of responsibility under the relevant work permit and/or notification is confirmed with relevant person/s in accordance with job requirements and workplace procedures
  - 1.6 Equipment, plant, tools and personal protective equipment (PPE) required for the work are identified, obtained and checked for correct operation and safety in accordance with workplace procedures
  - 1.7 Relevant person/s are consulted to ensure the work is coordinated effectively with others involved
  - 1.8 Materials, plans, diagrams, drawings and resources required to construct and lay steel gas distribution mains are confirmed, scheduled and obtained in accordance with workplace procedures
  - 1.9 Safety and emergency procedures and responsibilities for an incident are checked and confirmed with relevant person/s
  - 1.10 Third-party issues are referred to relevant person/s in accordance with workplace procedures
  - 1.11 Site preparation, safety plan and work schedule are confirmed with relevant person/s in accordance with workplace procedures
  - 1.12 Road signs, barriers and warning devices are positioned in accordance with job instructions, workplace procedures and traffic management plans
- 2 Construct and lay steel gas distribution mains**
- 2.1 WHS/OHS risk control measures, schedule of work and workplace procedures for carrying out work are followed

- 2.2 Materials, tools, equipment and measuring devices required for the work are selected and used correctly and safely in accordance with manufacturer instructions and workplace procedures
  - 2.3 Hazardous activities are conducted safely in accordance with WHS/OHS workplace procedures and job instructions
  - 2.4 Excavation bed/trench is prepared for laying of steel gas pipe in accordance with relevant industry standards and workplace procedures
  - 2.5 Construction and laying of steel gas pipe transition and connections are conducted in accordance with relevant industry standards and workplace procedures
  - 2.6 Work is carried out to the required standard, without waste of materials or damage to apparatus, equipment, and the surrounding environment or services using sustainable energy principles
  - 2.7 WHS/OHS risks, incidents and accidents are reported to authorised person/s for directions in accordance with workplace procedures
  - 2.8 Unplanned events are referred to authorised person/s for directions in accordance with workplace procedures
  - 2.9 Quality and safety checks of work and testing of pipework is carried out in accordance with industry standards, work instructions and workplace procedures
- 3 Complete the work and relevant documentation**
- 3.1 WHS/OHS risk control measures for work completion are followed
  - 3.2 Work site is rehabilitated, cleaned up and made safe in accordance with workplace procedures
  - 3.3 Equipment, tools and any surplus resources and materials are cleaned, checked and securely stored in accordance with workplace procedures
  - 3.4 Relevant person/s are notified of work completion in accordance with workplace procedures
  - 3.5 Relevant documentation is completed and provided 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.

competency must demonstrate constructing and laying a distribution gas service to metal mains, including:

- installing the meter connection to the services user
- joining pipes and fittings
- laying and cutting pipes
- preparing an excavation bed and backfilling

## Unit Mapping Information

This unit replaces and is equivalent to UEGNSG223A Construct and lay steel gas distribution pipelines.

## Links

Companion Volume Implementation Guides are found in VETNet -

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