



Australian Government

UEGNSG327 Coordinate transmission pipeline construction operations

Release: 1

UEGNSG327 Coordinate transmission pipeline construction operations

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 coordinate gas transmission pipeline construction operations.

It includes planning, coordinating and completing gas transmission pipeline construction operations.

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

Pre-requisite Unit

Not applicable.

Competency Field

Gas Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for gas transmission pipeline construction activities

PERFORMANCE CRITERIA

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

1.1 Work instructions are obtained and confirmed with relevant personnel

1.2 Work health and safety (WHS)/occupational health and safety (OHS), environmental and sustainable energy

workplace policies and procedures are followed for gas transmission pipeline work to be performed

- 1.3 Hazards are identified, WHS/OHS risks assessed and control measures are prioritised, implemented and monitored, including emergency exits kept clear in accordance with workplace procedures
- 1.4 Alignment sheets are used to determine construction operations, and work schedule is checked for quality outcome and to minimise risk and damage to property, commerce and stakeholders in accordance with workplace procedures
- 1.5 Work site is inspected and assessed using appropriate resources to determine requirements in accordance with workplace procedures and relevant requirements
- 1.6 Job safety analysis (JSA)/safe work method statement (SWMS) briefing is undertaken to determine the tasks, and associated hazards, risks and controls with all relevant persons to confirm work schedule
- 1.7 Scope of responsibility in accordance with relevant work permit is determined and confirmed in accordance with workplace procedures and relevant person/s
- 1.8 Resources, relevant procedures, competent personnel, plant, equipment, tools and personal protective equipment (PPE) required for the job are obtained and in working order in accordance with workplace procedures
- 1.9 Responsibilities for first aid and other emergency incidents at the work site are checked and confirmed in accordance with job requirements and workplace emergency response procedures
- 1.10 Client issues are referred to relevant person/s in accordance with relevant industry and community standard/s

2 Coordinate gas pipeline operations

- 2.1 WHS/OHS workplace policies, procedures and SWMS are followed to eliminate or minimise workplace incidents and hazards
- 2.2 Lifting, climbing, working aloft, and use of tools and equipment, techniques and practices are safely followed in accordance with workplace procedures and JSA/SWMS

- 2.3 Work area is made safe and gas pipeline construction activities are coordinated in accordance with instructions and workplace procedures
 - 2.4 Gas pipeline construction activities are carried out to agreed timeframe, relevant industry quality standards and with a minimum of waste in accordance with job requirements and workplace procedures
 - 2.5 Operational hazards and safety risks are reported to the relevant person/s for directions in accordance with workplace procedures
 - 2.6 Unplanned events are referred to relevant person/s for directions in accordance with workplace procedures
 - 2.7 Corrective action associated with unplanned pipeline construction operations is dealt with in accordance with work instructions and workplace procedures in a manner that minimises risk to personnel and equipment
 - 2.8 Ongoing checks and data collection relating to the quality of the work are undertaken in accordance with instructions and workplace procedures
- 3 Complete gas transmission pipeline construction operations**
- 3.1 Gas pipeline construction operations are monitored to ensure integrity of the pipe and the coating is maintained
 - 3.2 Compliance with work schedule is maintained and anomalies are reported to relevant person/s in accordance with workplace procedures
 - 3.3 Accidents and incidents are actioned and reported to relevant person/s in accordance with workplace procedures
 - 3.4 Tools, equipment and any surplus resources and waste materials are removed, cleaned, checked and returned to storage in accordance with workplace procedures
 - 3.5 Relevant person/s are notified of work completion in accordance with workplace procedures
 - 3.6 Work completion records, report forms and data sheets are completed accurately in accordance with instructions and 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.

gas pipeline operations must include the following:

- backfill
- clear and grade
- ditching
- hydro testing
- joint coating
- lower and lay
- mechanical (minor maintenance)
- string and bend
- welding

plant and equipment must include the following:

backfill:

- padding machine
- excavator
- grader
- dozer
- front end loader
- mitsu bucket

clear and grade:

- dozer
- excavator
- grader
- backhoe
- front end loader

ditching:

- excavator
- rock saw
- bucket wheel trencher
- general digging conditions
- hard digging conditions

hydro testing:

- crane truck
- side boom
- rough terrain crane
- pumps
- dead weight tester
- temperature probes and sensors
- headers
- drying plant
- after cooler
- pig
- chart recorder
- lighting towers
- gauging plate

joint coating:

- grit blasting rig (skid steer)
- wrapping machine
- thermal coil
- temperature probes and sensors

lower and lay:

- side boom with roller cradles
- excavator

mechanical (minor maintenance):

- excavator and vacuum lift
- bending machine and mandrels
- internal line up clamp
- tack rig
- side boom
- roller cradles
- rock saw
- bucket wheel trencher
- thermal coil
- over ditch wrapping machine
- padding machines
- mitsu bucket

string and bend:

- excavator
- bending machine with mandrels
- side boom
- pipe truck
- vacuum lift

welding:

- side boom
- internal line up clamp
- tack rig
- temperature probes and sensors
- headers

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG327A Coordinate transmission pipeline construction operations.

Links

Companion Volume Implementation Guides are found in VETNet -

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