



Australian Government

UEGNSG307 Coordinate the operation of relevant plant and equipment for transmission pipeline construction

Release: 1

UEGNSG307 Coordinate the operation of relevant plant and equipment for transmission pipeline construction

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 the operation of relevant plant and equipment necessary for the construction of transmission pipelines.

It includes preparing for transmission pipeline construction, coordinating the operation of relevant plant and equipment for transmission pipeline construction, and completing work and relevant documentation.

Plant and equipment used for transmission pipeline construction may include excavator and vacuum lift, bending machine and mandrels, internal line up clamp, tack rig, side boom, roller cradles, rock saw, bucket wheel trencher, sand blasting unit, thermal coil, over ditch wrapping machine, padding machines and mitsu bucket.

The application of the skills and knowledge described in this unit may require a licence/registration to practise in the workplace.

Other conditions may apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit

Pre-requisite Unit

Not applicable.

Competency Field

Gas Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare for transmission pipeline construction

- 1.1** Job instructions are obtained and confirmed with relevant person/s
- 1.2** Materials, plans, diagrams, drawings, safety data sheets (SDS), codes of practice and other relevant resources required for the transmission work activity are confirmed, scheduled and obtained in accordance with workplace procedures
- 1.3** Work health and safety (WHS)/occupational health and safety (OHS), environmental, cultural, heritage and sustainable energy policies and procedures for the work are obtained and confirmed relevant person/s
- 1.4** Easement is inspected and assessed using appropriate mediums and civil activities to determine job requirements in accordance with workplace procedures
- 1.5** Person/s participating in the work are communicated with to determine and confirm the work schedule
- 1.6** Suggestions to assist with constructing pipeline easements are made to others involved in the work in accordance with workplace procedures
- 1.7** Hazards and WHS/OHS risks are identified, assessed and prioritised and control measures implemented and monitored in accordance with workplace procedures
- 1.8** Responsibilities under the relevant work permit are obtained and confirmed with relevant person/s in accordance with regulatory requirements and workplace procedures
- 1.9** Resources, including equipment, tools and personal protective equipment (PPE) required for the job, are obtained and checked for correct operation and safety in accordance with workplace procedures
- 1.10** Responsibilities for first aid and incidents at the work site are checked and confirmed with relevant person/s in accordance with workplace procedures
- 1.11** Third-party issues are referred to appropriate person/s in accordance with industry and community standards

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| | 1.12 | Relevant person/s are identified and consulted to ensure the work is coordinated effectively and safely in accordance with WHS/OHS requirements and workplace procedures |
| 2 Operate relevant plant and equipment for transmission pipeline construction | 2.1 | WHS/OHS risk control measures and policies and procedures are followed in accordance with workplace procedures |
| | 2.2 | Hazardous activities are conducted safely in accordance with job instructions, regulatory requirements and workplace procedures |
| | 2.3 | Work area is isolated, made safe and civil activities and construction of pipeline easements are carried out in accordance with job instructions and workplace procedures and relevant codes of practice |
| | 2.4 | Easement is constructed to ensure completion in agreed timeframes and to industry standards with a minimum of waste in accordance with job requirements and workplace procedures |
| | 2.5 | Potential hazards and safety risks are identified and reported to authorised person/s for directions in accordance with established procedures |
| | 2.6 | Unplanned events and non-routine problems are referred to authorised person/s for directions in accordance with workplace procedures |
| | 2.7 | Fault-finding and troubleshooting techniques are applied when constructing pipeline easements in accordance with job requirements and workplace procedures |
| | 2.8 | Quality and safety checks of the work are conducted in accordance with job instructions and workplace procedures |
| 3 Complete work and relevant documentation | 3.1 | Pipeline easement work undertaken is checked against work schedule for conformance with job requirements and anomalies reported to authorised person/s in accordance with workplace procedures |
| | 3.2 | Accidents and incidents are actioned and reported to authorised person/s in accordance with workplace procedures |

- 3.3 Work site is rehabilitated, cleaned up and made safe in accordance with job instructions and workplace procedures
- 3.4 Tools, equipment, plant and any surplus resources and materials are cleaned, checked and returned to storage in accordance with workplace procedures
- 3.5 Appropriate person/s are notified of work completion in accordance with workplace procedures
- 3.6 Work completion records, report forms, documentation and data sheets are completed in accordance with job 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.

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG325 Coordinate the operation of relevant plant and equipment for transmission pipeline construction.

Links

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

Assessment Requirements for UEGNSG307 Coordinate the operation of relevant plant and equipment for transmission pipeline construction

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, including:
 - correctly selecting and using personal protective equipment (PPE)
 - hazard identification and reporting
 - implementing risk control measures
- communicating with relevant stakeholders
- completing work and relevant documentation, reports, data sheets and records
- complying with permits pertaining to transmission pipeline construction operations
- complying with regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- complying with relevant cultural and heritage requirements
- coordinating the operation of relevant plant and equipment for transmission pipeline construction
- dealing with and reacting to a variety of contingencies, including rain and transport of plant and equipment
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following workplace policies and procedures
- inspecting and constructing easements
- isolating work area
- monitoring the effective use of plant and equipment
- obtaining and interpreting relevant plans, drawings and diagrams
- organising equipment according to the needs of the project incorporating environmental/geological constraints
- preparing for transmission pipeline construction
- rehabilitating work site.

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:

- capability and capacity of gas industry transmission pipeline construction plant and equipment across variable terrain and environment
- cultural and heritage requirements
- dealing with contingencies
- easement construction
- effective communication on a gas transmission pipeline construction site (between operators and ground crew)
- fault-finding and troubleshooting techniques
- hazardous activities, including lifting, climbing, working in confined spaces, excavations, trenches and aloft, and use of power tools
- on-site pipeline construction communication strategies and techniques
- operation of transmission pipeline construction plant and equipment
- plant and equipment required for transmission pipeline construction
- quality and safety checks
- regulations, industry standards, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- transmission pipeline construction
- relevant WHS/OHS legislated requirements, including:
 - emergency and incident response
 - hazard identification
 - hazards, risk assessment and control measures
 - manual handling
 - PPE
 - safety data sheets (SDS)
 - work permits and job hazard analysis (JHA), job safety analysis (JSA), job safety and environment analysis (JSEA) and SWMS

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within 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

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