



Australian Government

UEGNSG333 Work in proximity of transmission pipeline construction plant and equipment

Release: 1

UEGNSG333 Work in proximity of transmission pipeline construction plant and equipment

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 work in proximity of gas transmission construction plant and equipment, and complete work and documentation in accordance with relevant legislations, codes of practice, regulations, industry standards and workplace procedures.

It includes the operating parameters and safety issues of a range of specific plant and equipment dedicated to the construction of transmission pipelines at a construction work site.

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

Pre-requisite Unit

Not applicable.

Competency Field

Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

- 1 Prepare to work in proximity of plant and equipment for transmission pipeline construction**

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 and workplace procedures for the site are obtained and 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 Easement is inspected and assessed to determine relevant requirements in accordance with workplace procedures
 - 1.5 Hazards are identified, WHS/OHS risks are assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures
 - 1.6 Scope of responsibility under the relevant work permit and/or relevant notification is obtained and confirmed with relevant person/s in accordance with job requirements and workplace procedures
 - 1.7 Equipment, plant, tools and personal protective equipment (PPE) required for the work are identified, scheduled, obtained and checked for operation and safety in accordance with workplace procedures and manufacturer instructions
 - 1.8 Relevant person/s are consulted to ensure the work is coordinated effectively with others involved
 - 1.9 Materials, plans, diagrams, drawings and resources required for the work are confirmed, scheduled and obtained in accordance with workplace procedures
 - 1.10 Responsibilities for first aid, emergencies and work safety procedures for an incident at the worksite are checked and confirmed with relevant person/s
 - 1.11 Third-party issues are referred to relevant person/s in accordance with workplace procedures
 - 1.12 Site preparation, safety plan and work schedule are confirmed with relevant person/s in accordance with workplace procedures
- 2 **Work in proximity of plant and equipment for transmission pipeline construction**
 - 2.1 WHS/OHS risk control measures, schedule of work and workplace procedures for carrying out the 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 Work is carried out to the required standard, without waste of materials or damage to apparatus, circuits, and the surrounding environment or services using sustainable energy principles
 - 2.5 WHS/OHS risks and incidents are reported to authorised person/s for directions in accordance with workplace procedures
 - 2.6 Unplanned events are referred to the authorised person/s for directions in accordance with workplace procedures
 - 2.7 Remedial action required when constructing pipeline easements is dealt with in accordance with workplace procedures
 - 2.8 Quality and safety checks are carried out in accordance with work instructions and workplace procedures
- 3 **Complete work and relevant documentation**
 - 3.1 WHS/OHS risk control measures for work completion are followed
 - 3.2 Work site is tidied and made safe 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 Relevant person/s are notified of work completion in accordance with workplace procedures
 - 3.5 Work completion documentation is completed accurately and provided to relevant 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.

backfilling must include at least one (1) of the following items of plant and equipment:

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

clearing and grading must include at least one (1) of the following items of plant and equipment:

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

ditching must include at least one (1) of the following items of plant and equipment:

- excavator
- rock saw
- bucket wheel trencher

hydro-testing must include at least one (1) of the following items of plant and equipment:

- crane truck
- side boom
- rough terrain crane

joint coating must include at least one (1) of the following items of plant and equipment:

- sand blasting rig (skid steer)
- over ditch wrapping machine
- thermal coil

lowering and laying must include at least one (1) of the following items of plant and equipment:

- side boom with roller cradles
- excavator

performing mechanical (minor maintenance) must include at least four (4) of the following items of plant and equipment:

- 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

stringing and bending must include at least one (1) of the following items of plant and equipment:

- padding machines
- mitsu bucket
- excavator
- bending machine with mandrels
- side boom

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG333A Work in proximity of transmission pipeline construction plant and equipment.

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 UEGNSG333 Work in proximity of transmission pipeline construction plant and equipment

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, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including undertaking hazardous activities in a safe manner
- applying sustainable energy and environmental principles and practices, including minimising waste
- completing required documentation and reporting
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following manufacturer instructions
- following workplace policies and procedures
- identifying and checking tools, equipment, plant and personal protective equipment (PPE) for correct operating parameters and safety
- inspecting and assessing easement
- maintaining a clean and safe work site
- obtaining and interpreting relevant plans, drawings, diagrams and schedules
- obtaining job requirements, work instructions, safety plans and work schedules
- obtaining relevant resources and materials to conduct the work
- performing quality and safety checks
- preparing to work in proximity of plant and equipment for transmission pipeline construction, including working in proximity of transmission construction plant and equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- easements relevant to transmission pipeline construction
- effective communication techniques
- environmental and sustainable energy principles and practices, including techniques to

minimise waste

- first aid, emergency and safety procedures for incidents
- hazards and hazardous activities in the workplace
- licensing requirements for construction plant and equipment
- plant, tools and equipment types, purpose and basic operation
- quality and safety checks
- relevant industry and technical standards
- relevant legislation, industry standards, regulations and codes of practice
- relevant construction plant and equipment manufacturer instructions
- relevant materials, plans, diagrams, drawings and resources
- relevant remedial actions for constructing pipeline easements
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes and includes personal protective equipment
- relevant WHS/OHS legislated requirements
- relevant work permits and/or notifications
- relevant workplace documentation
- relevant workplace policies and procedures
- safe operating parameters
- site preparation, safety plans, job requirements and work schedules.

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.

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