



Australian Government

**Assessment Requirements for UEGNSG038
Supervise the operation of plant and
equipment for the construction of gas
transmission pipelines**

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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 organisational management systems and procedures for workplace safety, including:
 - identifying hazards
 - managing risk through the incorporation of effective control measures
- applying relevant industry standards, guidelines, codes of practice, legislation and regulations
- applying relevant workplace safety requirements, including:
 - correctly selecting and using personal protective equipment (PPE)
 - effectively using safety data sheets (SDS)
 - identifying and reporting hazards
 - implementing risk control measures
 - preparing job hazard analysis
 - using safe manual handling techniques
- communicating instructions to transmission pipeline construction workforce, contractors and stakeholders, including communication with ground crew during operations
- completing work and relevant documentation, data sheets, reports and records
- complying with flora and fauna management requirements
- complying with permits pertaining to transmission pipeline construction operations
- complying with relevant cultural heritage requirements
- coordinating an effective response to a transmission pipeline construction emergency
- dealing with an environmental incident
- dealing with unplanned events
- following workplace procedures
- preparing work schedule for the use of plant and equipment
- protecting the environment whilst constructing a transmission pipeline, including:
 - erosion prevention
 - weed spread mitigation
 - application of SDS information

- noise control techniques
- excavation restoration
- applying green tagging for flora and fauna habitat
- supervising operations in accordance with the work schedule
- supervising shutdown procedure
- supervising the use of small plant and equipment, including:
 - extra low voltage (ELV) lighting equipment
 - gas detectors
 - general concrete mixer
 - general trolley
 - handheld tools
 - hand wrapping machines
 - holiday detection equipment
 - non-pressurised pumps and hoses
 - power tools
 - pressurised pumps and hoses
 - traffic barriers
 - wheelbarrows
- verifying all required quality and safety checks are conducted
- verifying large plant and equipment has been properly maintained.

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:

- construction activity procedures
- construction materials: properties, characteristics and applications
- contingency planning and management
- cultural and heritage awareness requirements and procedures
- environmental requirements and procedures
- interpreting, applying and communicating information, including:
 - manufacturer manuals
 - requirements and procedures
 - technical information and drawings
 - site plans
 - basic geological and technical data
- on-site communication techniques, including:
 - hand signals
 - radios
- project and time management skills

- quality assurance procedures
- relevant legislation, regulations, codes, standards and policies
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant stakeholders
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - legislated industry/technical specific requirements
 - workplace safety procedures
 - manufacturer requirements
- relevant workplace documentation, forms and reports
- relevant workplace policies and procedures
- supervisory and leadership techniques
- transmission pipeline construction activities, including:
 - backfill
 - clear and grade
 - ditching
 - hydro testing
 - joint coating
 - lower and lay
 - mechanical (minor maintenance)
 - string and bend
 - welding
- relevant transmission pipeline construction techniques, plant, equipment and tools.

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.

Links

Companion Volume Implementation Guides are found in VETNet -

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