



Australian Government

**Assessment Requirements for UEGNSG348
Supervise the operation of plant and
equipment for the construction of gas
transmission pipelines**

Release: 1

Assessment Requirements for UEGNSG348 Supervise the operation of plant and equipment for the construction of gas transmission pipelines

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 organisational management systems and procedures for work health and safety (WHS)/occupational health and safety (OHS), 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 WHS/OHS requirements, including:
 - correctly selecting and using personal protective equipment (PPE)
 - effectively using safety data sheets (SDS)
 - hazard identification and reporting
 - implementing risk control measures
 - preparing job hazard analysis
 - 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 permits pertaining to transmission pipeline construction operations
- complying with relevant cultural heritage requirements
- conducting quality and safety checks
- coordinating an effective response to a transmission pipeline construction emergency
- dealing with an environmental incident, including:
 - controlling and minimising the impact of an environmental incident
 - controlling environment incident
 - incident investigation
 - applying incident reporting and notification procedures
 - reviewing environmental incident
 - making recommendations to prevent reoccurrence

- implementing recommendations
- dealing with unplanned events
- following workplace procedures
- operating and maintenance schedule requirements for large plant and equipment, including:
 - dozer
 - excavator
 - grader
 - backhoe
 - front end loader
 - side boom
 - internal line up clamp
 - tack rig: dozer or skid steer
 - grit blasting rig
 - side booms with roller cradles
 - crane truck: heavy rigid truck
 - rough terrain crane
- preparing work schedule for the use of plant and equipment
- protecting the environment whilst constructing a transmission pipeline, including:
 - installation of siltation control methods, such as straw and synthetic bails
 - curb side filter rolls
 - erosion prevention
 - weed spread mitigation
 - application of SDS information
 - noise control techniques
 - odourant handling and testing processes
 - excavation restoration, compaction and seeding
 - applying green tagging for flora and fauna habitat
 - application of cultural heritage awareness and protection requirements for a pipeline construction site
- supervising operations in accordance with the work schedule
- supervising shutdown procedure
- using small plant and equipment, including the following:
 - extra low voltage lighting equipment
 - gas detectors
 - general concrete mixer
 - general trolley
 - hand held tools
 - hand wrapping machines
 - holiday detection equipment
 - non-pressurised pumps and hoses

- power tools
- pressurised pumps and hoses
- traffic barriers
- wheelbarrows.

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:

- 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
 - satellite phones
 - 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 assessments or risk mitigation processes
- relevant stakeholders
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures
 - PPE and spill kits
 - hazardous materials
 - manual handling
 - confined spaces
 - gas detection
 - SDS
 - emergency and incident response

- relevant workplace documentation, forms and reports
- relevant workplace policies and procedures
- supervisory and leadership techniques
- transmission pipeline construction functions, including:
 - backfill
 - clear and grade
 - ditching
 - hydro testing
 - joint coating
 - lower and lay
 - mechanical (minor maintenance)
 - string and bend
 - welding
- transmission pipeline construction techniques, 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>