



Australian Government

Assessment Requirements for UEGNSG046 Coat metallic pipelines

Release: 1

Assessment Requirements for UEGNSG046 Coat metallic 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 and performance criteria on at least two separate occasions and include:

- applying controls for stray, static and induced electrical faults
- applying relevant workplace safety requirements, including:
 - actioning and reporting accidents and incidents
 - following environmental legislative requirements associated with the use, application and disposal of coating materials
 - identifying and reporting hazards
 - implementing risk control measures
 - recognising and assessing hazard warnings and safety signs
 - safe handling procedures for a range of dangerous and toxic chemicals and compounds
 - selecting and using the correct personal protective equipment (PPE)
 - undertaking hazardous activities in a safe manner
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying sustainable energy and environmental principles and practices
- assessing coating and application defects
- coating metallic pipelines
- communicating effectively with relevant person/s
- completing work and relevant documentation
- 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 procedures
- minimising and disposing of waste correctly
- obtaining and interpreting relevant plans, drawings, maps, diagrams and schedules
- obtaining job requirements, work instructions, safety plan and work schedule
- performing quality checks
- performing visual inspection of pipeline coatings
- preparing to coat metallic pipelines

- referring third-party issues
- rehabilitating and maintaining a clean and safe worksite
- selecting and using relevant materials and measuring devices
- selecting and operating correct tools, plant and equipment, including:
 - abrasive blast comparators
 - abrasive blasting equipment
 - densitometers
 - heating torch
 - low voltage (LV)/high voltage (HV) holiday detectors
 - paint thickness coating gauges and meters
 - pipe wrapping machines
 - spray painting equipment
- testing pipeline coatings.

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:

- cathodic protection, including:
 - faults and effects
 - stray electrical currents
 - damage to coatings
- controls for stray, static and induced electrical faults
- effective communication techniques
- environmental and sustainable energy principles and practices
- first aid, emergency and safety procedures for incidents
- pipeline coating application
- pipeline coating defect assessment methods
- pipeline coating irregularities, deviations or problems
- pipeline preparation/stripping
- pipeline coating types and applications, including:
 - petroleum based wraps
 - epoxy
 - paints
 - polyethylene (PE) jackets and sleeves
 - coal tar enamel
 - rock (protection) jacket
- problem-solving techniques
- quality checks
- relevant industry standards, legislation, guidelines, codes of practice and regulations
- relevant manufacturer instructions
- relevant materials, plans, diagrams, drawings and resources
- relevant safe work method statements (SWMS)/job safety analysis (JSA) or risk mitigation processes
- relevant safety and environmental hazards and mitigation measures, including:
 - requirements of coating substance
 - safety issues of working in trenches, excavations and confined spaces
 - safety data sheets (SDS)
 - hazards and risk assessments
 - hazardous activities in the workplace
 - emergency control measures
 - hazard warnings and safety signs
- relevant tools, equipment, measuring devices and PPE
- 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 work permits/notifications
- relevant workplace documentation
- relevant workplace policies and procedures
- site preparation, safety plans, job requirements and work schedules
- techniques to minimise waste
- testing pipeline coatings
- third-party issues
- worksite rehabilitation.

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>