



Australian Government

UEGNSG142 Conduct isolations under the permit to work system for gas industry work sites

Release: 2

UEGNSG142 Conduct isolations under the permit to work system for gas industry work sites

Modification History

Release 2: This is the second release of this unit of competency in the UEG Gas Industry Training Package.

- Minor typographic error corrected in Pre-requisite Unit code.

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 plan and conduct isolation, de-isolation and restoration under the permit to work system for a gas industry work site in accordance with relevant legislation, industry standards, codes of practice and workplace procedures.

It includes conducting energy source isolation, de-isolation and restoration under permit to work system for a gas industry work site and completing relevant documentation.

The application of the skills and knowledge described in this unit may require a license or permit to practice in the workplace.

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

Pre-requisite Unit

MSMWHS217 Gas test atmospheres

Competency Field

Gas Cross Discipline

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

- 1 Prepare for isolation work**
- 1.1** Work health and safety (WHS)/occupational health and safety (OHS), environmental and sustainable energy policies, and workplace procedures for the work site are identified, obtained and applied
 - 1.2** Plans, specifications and instructions are obtained and interpreted to determine job requirements
 - 1.3** Job requirements and workplace procedures for the work are discussed with relevant person/s to confirm the work schedule and respective responsibilities
 - 1.4** Hazards are identified, WHS/OHS risks are assessed and control measures are prioritised, implemented and monitored in accordance with workplace procedures
 - 1.5** Responsibilities under the relevant work permit/notification is obtained and confirmed to access, isolate/de-isolate systems and perform the work in accordance with regulatory requirements and workplace procedures
 - 1.6** Energy source isolation points are identified and communicated to the work party in accordance with requirements and workplace procedures
 - 1.7** Person/s and equipment, tools and personal protective equipment (PPE) required for the work are identified, coordinated, scheduled, obtained and checked for correct operation and safety in accordance with workplace procedures
 - 1.8** Resources, including persons and equipment required, are identified, scheduled, coordinated and confirmed
 - 1.9** Appropriate person/s are consulted to ensure the work is coordinated effectively with others involved
 - 1.10** Third-party issues, including low voltage electrical work, are referred to relevant person/s in accordance with workplace procedures
 - 1.11** Persons participating in the work, including plant operators and contractors, are briefed and responsibilities coordinated and authorised by permits to work, as required, in accordance with workplace procedures

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|---|-------------|---|
| | 1.12 | Site preparation, safety plan and the work schedule are confirmed in accordance with workplace procedures |
| 2 Conduct energy source isolation | 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, personal protective equipment (PPE) and measuring devices required for the isolation are selected and used correctly and safely in accordance with manufacturer instructions |
| | 2.3 | Work is carried out to industry standards without waste of materials or damage to apparatus, circuits and the surrounding environment or services using sustainable energy principles |
| | 2.4 | Hazard warnings and safety signs are recognised and WHS/OHS risks and incidents reported to authorised person/s for directions in accordance with workplace procedures |
| | 2.5 | Energy source isolation is completed, tagged, locked out and documented on work permit in accordance with workplace procedures and job requirements |
| | 2.6 | Unplanned events and non-routine problems encountered when conducting isolations are identified and actioned in accordance with requirements and workplace procedures |
| | 2.7 | Quality and safety checks of the work are undertaken in accordance with industry standards and workplace procedures |
| 3 Conduct de-isolation and restoration | 3.1 | WHS/OHS risk control measures and workplace procedures for completing the work are followed |
| | 3.2 | De-isolation and restoration is performed, tags removed and results recorded 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 | De-isolations are confirmed with other person/s involved in, or affected by, the work in accordance with workplace procedures |

- 3.5** Work completion documentation, including relevant permits, are completed accurately and provided to appropriate 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.

Unit Mapping Information

This unit replaces and is equivalent to UEGNSG142A Conduct isolations under the permit to work system for gas industry work sites.

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 UEGNSG142 Conduct isolations under the permit to work system for gas industry work sites

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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 communication skills, including conducting briefings
- applying problem-solving skills
- applying relevant industry standards, guidelines, codes of practice, legislation and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying sustainable energy and environmental principles and practices
 - enterprise safety procedures, site safety and emergency procedures
 - risk management
 - selecting and using correct personal protective equipment (PPE)
 - WHS/OHS legislation
- conducting de-isolation and restoration, including conducting risk assessment for isolation type
- conducting energy sources isolation in accordance with workplace procedures, including stopping plant, applying appropriately isolation/lock and tag, and dissipating any stored energy
- conducting quality and safety checks, including inspecting and tagging
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- documenting any remaining points of isolation and documenting tagging and locking out identified isolation points
- following relevant workplace procedures
- identifying isolation points
- isolating a range of energy sources, including:
 - gas
 - electricity

- pneumatics
- mechanical energy
- planning for isolation work, including isolating required forms of potentially hazardous energy, to ensure that an accidental release of hazardous energy does not occur.

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:

- de-isolation at the end of each work task, including job requirements and workplace procedures, and documenting any remaining points of isolation
- isolation requirements and workplace procedures, including:
 - communication with the relevant stakeholders
 - document, tag and lock-out identified isolation points
 - isolation energy sources, including gas, electricity, pneumatics and mechanical energy
 - isolation methods, including valves, circuit breakers, pneumatics and utility gas
 - points of isolations to ensure a safe work area
 - test and tagging requirements
- permit to work requirements and workplace procedures
- problem-solving techniques
- relevant gas industry worksite isolation legislation, industry standards, codes of practice and regulations
- relevant manufacturer specifications
- relevant workplace documentation
- relevant workplace policies and procedures
- relevant WHS/OHS legislated requirements, including:
 - risk assessment for isolation type
 - environmental and sustainable energy principles and practices
 - hazards, risk assessments and control measures
 - risk management
 - safe systems of work
 - safety procedures, site safety and emergency procedures.

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

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