



Australian Government

UEGNSG011 Conduct isolations under the permit to work system for gas industry worksites

Release: 1

UEGNSG011 Conduct isolations under the permit to work system for gas industry worksites

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 plan and conduct isolation, de-isolation and restoration under the permit to work system for a gas industry worksite 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 worksite 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 licensing 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

Elements describe the essential outcomes.

1 Prepare for isolation work 1.1

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

Workplace safety, environmental and sustainable energy practices for the site are identified, obtained and

understood

- 1.2** Job requirements are obtained and interpreted from plans, specifications and instructions
 - 1.3** Relevant job requirements and workplace procedures for work activities are discussed with relevant person/s, including third parties, to determine and confirm work schedule and respective responsibilities
 - 1.4** Hazards are identified, workplace safety and environmental risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
 - 1.5** Scope of responsibility under the relevant job requirements, including all work permits and/or relevant notifications, is determined and confirmed to access the services and perform work in accordance with job 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** Equipment, tools and personal protective equipment (PPE) needed to carry out work activities are identified, obtained and checked for correct operation and safety in accordance with workplace procedures and manufacturer instructions
 - 1.8** Materials, plans, diagrams, drawings and resources required for work are confirmed and obtained in accordance with workplace procedures
- 2 Conduct energy source isolation**
 - 2.1** Workplace safety and environmental risk control measures, schedule of work and workplace procedures for carrying out work are followed
 - 2.2** Appropriate materials, tools and equipment are selected and used safely in accordance with manufacturer instructions and workplace procedures
 - 2.3** Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.4** Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures

- 2.5 Alarms, codes and hazard warnings are correctly recognised, and the correct response strategy is selected and applied in accordance with workplace procedures
 - 2.6 Energy source isolation is completed, tagged, locked out and documented on work permit in accordance with workplace procedures and job requirements
 - 2.7 Faults and operational conditions of the components are identified, repaired or replaced, and reported in accordance with organisational job requirements
 - 2.8 Unplanned events and non-routine problems are identified and actioned in accordance with workplace procedures
- 3 Conduct de-isolation and restoration**
- 3.1 Workplace safety risk control measures for work completion are followed
 - 3.2 De-isolation and restoration are performed, tags removed and results recorded in accordance with workplace procedures
 - 3.3 De-isolations are confirmed with other person/s involved in, or affected by, the work in accordance with workplace procedures
 - 3.4 Worksite is cleaned, reinstated and made safe in accordance with workplace procedures
 - 3.5 Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
 - 3.6 Incidents are reported and followed up as required in accordance with workplace procedures
 - 3.7 Relevant person/s is notified of work completion in accordance with workplace procedures
 - 3.8 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.

Unit Mapping Information

This unit supersedes and is equivalent to UEGNSG142 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 UEGNSG011 Conduct isolations under the permit to work system for gas industry worksites

Modification History

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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 workplace safety 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)
 - work health and safety (WHS)/occupational health and safety (OHS) legislation
- planning for isolation work, including isolating required forms of potentially hazardous energy, to ensure that an accidental release of hazardous energy does not occur
- conducting de-isolation and restoration, including conducting risk assessment for isolation type
- conducting quality and safety checks, including inspecting and tagging
- conducting energy sources isolation in accordance with workplace procedures, including stopping plant, applying appropriately isolation/lock and tag, and dissipating any stored energy
- 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.

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
 - 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 workplace safety requirements, including:
 - legislated WHS/OHS requirements
 - legislated industry/technical specific requirements
 - workplace safety 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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