



Australian Government

Department of Education, Employment and Workplace Relations

UEGNSG112A Conduct isolation procedures for permit to work system for a Gas Industry work site

Release: 1

UEGNSG112A Conduct isolation procedures for permit to work system for a Gas Industry work site

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

1)

This Unit covers the planning and carrying out of isolation procedures for permit to work system for a Gas Industry work site. The competency standard will apply to other/relevant persons; permits; work completion details.

Application of the Unit

Application of the Unit

3)

This competency standard shall apply to any basic and safe work site where Gas Industry operations occur. It could also apply, where applicable to other workplaces in the electricity supply industry (transmission and distribution and generation), the electrotechnology industry and the water industry, subject to all Occupational Health and Safety and duty of care requirements being met for the workplace.

Licensing/Regulatory Information

License to practice

3.1)

The skills and knowledge described in this unit are not subject to licence regulation other than those directly related to Occupational Health and Safety, gas/electricity/water industry safety and compliance, industrial relations, environmental protection, telecommunications, anti discrimination and training. Commonwealth, State/Territory or Local Government legislation and regulations may exist that limit the age at

License to practice

3.1)

which a person can operate certain equipment.

Pre-Requisites

Prerequisite Unit(s)

2)

Competencies

2.1)

Granting of competency in this unit shall be made only after competency in the following unit(s) has/have been confirmed:

Nil

Employability Skills Information

Refer to the Evidence Guide

Elements and Performance Criteria Pre-Content

5) Elements describe the essential outcomes of a competency standard unit

Performance Criteria describe the required performance needed to demonstrate achievement of the element.
Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1 Plan and prepare for isolation, de-isolation and restorations

1.1 Work requirements are identified from work orders and confirmed with appropriate parties or by site inspection

1.2 Safety issues are identified to comply with statutory, enterprise and site requirements

1.3 Work is prioritised and sequenced for the most efficient and effective outcome following consultation with others for completion within

ELEMENT	PERFORMANCE CRITERIA
	acceptable timeframes to a quality standard and in accordance with established procedures
	1.4 Risk control measures are identified, prioritised and evaluated against the work schedule
	1.5 Relevant requirements and established procedures for the work are communicated to all persons and identified for all work sites
	1.6 Work is planned in detail and cost estimating and economic evaluation is performed to ensure work can be undertaken in accordance with requirements
	1.7 Resources including persons and equipment required are identified, scheduled, coordinated and confirmed
	1.8 Clients are provided with possible solutions and options within the scope, acceptable cost and requirements
	1.9 Liaison and communication issues with authorised persons, authorities, clients and land owners are resolved and activities coordinated to carry out work
	1.10 Persons participating in the work, including plant operators and contractors are fully briefed and respective responsibilities coordinated and authorised by permits to work where applicable in accordance with establish procedures
	1.11 Site is prepared according to the work schedule and to minimise risk and damage to property, commerce and individuals in accordance with established procedures
2 Perform isolation process	2.1 OHS, environmental and sustainable energy policies and procedures and safe work practices are followed to eliminate or minimise incidents and hazards
	2.2 Resources required to implement strategies are identified and detailed and the work is performed in accordance with a work schedule

ELEMENT	PERFORMANCE CRITERIA
	and to requirements
	2.3 Timeframes and potential variances for isolation are defined and potential risks and control measures are monitored and preventative action taken where necessary
	2.4 System isolation is performed in accordance with established procedures and requirements including OHS
	2.5 Planned objectives are documented in accordance with enterprise requirements
	2.6 Essential Knowledge and Associated Skills are applied to ensure completion in an agreed timeframe and to quality standards with a minimum of waste according to requirements
	2.7 Solutions to non-routine problems are identified and actioned using acquired Essential Knowledge and Associated Skills according to requirements
	2.8 Ongoing checks of quality of the work are undertaken in accordance with requirements and established procedures to ensure a quality outcome is achieved for the client and to a community and industry standard
3 Perform de-isolation and restoration	3.1 De-isolation and restoration is performed in accordance with required outcomes as per enterprise requirements
	3.2 De-isolations are confirmed with others involved in, or affected by the work in accordance with enterprise site procedures
	3.3 Final reporting is performed as per enterprise requirements

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

6) This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge has been acquired of safe working practices in conducting isolation procedures for permit to work system for a gas industry work site. The extent of the essential knowledge and associated skills (EKAS) required is given in Volume 2 - Part 2.2 EKAS. It forms an integral part of this unit.

- G 5.1.1 Gas Industry concepts for supervising operations
- G 5.1.2 Problem solving, decision making and conflict resolution
- G 5.1.3 Emergency management
- G 5.1.4 Management techniques of utilities industry supervision
- G 5.1.6 Technical knowledge for Gas Industry managers

Evidence Guide

EVIDENCE GUIDE

8) The Evidence Guide forms an integral part of this Unit and shall be used in conjunction with all components parts of this unit and performed in accordance with the Assessment Guidelines of this Training Package.

Overview of Assessment

8.1)

Longitudinal competency development approaches to assessment, such as Profiling, require data to be reliably gathered in a form that can be consistently interpreted over time. This approach is best utilised in Apprenticeship programs and reduces assessment intervention. It is the Industry's preferred model for apprenticeships. However, where summative (or final) assessment is used it is to include the application of the competency in the normal work environment or, at a minimum, the application of the competency in a realistically simulated work environment. It is recognised that, in some circumstances, assessment in part or full can occur outside the workplace. However, it must be in accord with industry and regulatory policy in this regard.

Methods chosen for a particular assessment will be influenced by various factors. These include the extent of the assessment, the most effective locations for the assessment activities to take place, access to physical resources, additional safety measures that may be required and the critical nature of the competencies being assessed.

The critical safety nature of working with electricity, electrical equipment, gas or any other hazardous substance/material carries risk in deeming a person competent. Hence, sources of evidence need to be 'rich' in nature so as to minimise error in judgment.

Activities associated with normal every day work have a bearing on the decision as to how much and how detailed the data gathered will contribute to its 'richness'. Some skills are more critical to safety and operational requirements while the same skills may be more or less frequently practised. These points are raised for the assessors to consider when choosing an assessment method and developing assessment instruments. Sample assessment instruments are included in the Assessment Guidelines of this Training Package.

Critical aspects of evidence required

8.2)

Before the critical aspects of evidence are considered all

EVIDENCE GUIDE

to demonstrate competency in this unit

prerequisites shall be met.

Evidence for competence in this unit shall be considered holistically. Each element and associated Performance Criteria shall be demonstrated on at least two occasions in accordance with the 'Assessment Guidelines UEG06'. Evidence shall also comprise:

- A representative body of Performance Criteria demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows a candidate is able to:
 - Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the Performance Criteria and range
 - Apply sustainable energy principles and practices as specified in the Performance Criteria and range
 - Demonstrate an understanding of the essential knowledge and associated skills as described in this unit to such an extent that the learner's performance outcome is reported in accordance with the preferred approach; namely a percentile graded result, where required by the regulated environment
 - Demonstrate an appropriate level of skills enabling employment
 - Conduct work observing the relevant Anti discrimination legislation, regulations, policies and workplace procedures
 - Demonstrate performance across a representative range of contexts from the prescribed items below:

Range of tools/equipment/materials/procedures/workplaces/other variables		
Group No	The minimum number of items on which skill is to be demonstrated	Item List
A	All	Knowledge and interpretation of OHS legislation Enterprise safety procedures, site safety and emergency

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		procedures
B	All	Strategy development Maintenance philosophy Engineering principles Risk management Principles of planning Communication principles Problem solving skills
C	At least one occasion	Deal with an unplanned event by drawing on essential knowledge and associated skills to provide appropriate solutions incorporated in the holistic assessment with the above listed items

Context of and specific resources for assessment

8.3)

This unit should be assessed as it relates to normal work practice using procedures, information and resources typical of a workplace. This should include:

- OHS policy and work procedures and instructions.
- Suitable work environment, facilities, equipment and materials to undertake actual work as prescribed by this Unit
- Appropriate environmental regulation and work practices.
- Appropriate organisational requirements.
- Appropriate work environment, equipment and tools.

In addition to the resources listed above, in Context of and specific resources for assessment, evidence should show demonstrated competency of conducting isolation procedures for permit to work system for a Gas Industry work site

Assessment of this competency must also be undertaken in either an actual workplace or under a simulated work environment. Assessment must also integrate the key competencies in section 8.6 of this competency standard..

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Method of assessment

8.4)

This Unit shall be assessed by methods given in Volume 1, Part 3 'Assessment Guidelines'.

Note:

Competent performance with inherent safe working practices is expected in the Industry to which this Unit applies. This requires that the specified Essential Knowledge and Associated Skills are assessed in a structured environment which is primarily intended for learning/assessment and incorporates all necessary equipment and facilities for learners to develop and demonstrate the Essential Knowledge and Associated Skills described in this unit.

Concurrent assessment and relationship with other units

8.5)

There are no recommended concurrent assessments with this unit, however in some cases efficiencies may be gained in terms of learning and assessment effort being concurrently managed with allied Units where listed.

BSBFLM405A Implement operational plans

BSBCMN411A Monitor a safe workplace

Key Competencies

8.6)

Evidence that particular key competencies have been achieved within this Unit is in the context of the following Performance Criteria of evidence. See Volume 2, Part 4 for an explanation of Key Competencies and levels of this Training Package.

Key Competencies	Example of Application	Performance Level
How are ideas and information communicated within this competency?	Refer to the following Performance Criteria for examples of application: 1.5; 1.8; 1.9; 1.10	2
How can information be collected, analysed and organised?	Refer to the following Performance Criteria for examples of application: 1.1; 1.3; 1.4	2

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How are activities planned and organised?	Refer to the following Performance Criteria for examples of application: 1.2; 1.3; 1.7; 2.4; 3.1	3
How is team work used within this competency?	Refer to the following Performance Criteria for examples of application: 1.3; 1.5; 1.10	3
How are mathematical ideas and techniques used?	Refer to the following Performance Criteria for examples of application:	N/A
How are problem solving skills applied?	Refer to the following Performance Criteria for examples of application: 2.6	2
How is use of technology applied?	Refer to the following Performance Criteria for examples of application: 3.3	2

Skills Enabling Employment

8.7)

Evidence that competency in this unit incorporates skills enabling employment is in the context of the following performance.

Skills for Employment		Example of Application
1	Developing and using skills within a real workplace	Refer to the following Performance Criteria for examples of application: All
2	Learning to learn in the workplace	Refer to the following Performance Criteria for examples of application: 1.3; 1.4; 2.6

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3	Reflecting on the outcome and process of work task	Refer to the following Performance Criteria for examples of application: 3.3
4	Interacting and understanding of the context of the work task	Refer to the following Performance Criteria for examples of application: 1.5; 1.9; 2.6
5	Planning and organising the meaningful work task	Refer to the following Performance Criteria for examples of application:
		1.3; 1.4
6	Performing the work task in non-routine or contingent situations	Refer to the following Performance Criteria for examples of application: 2.6

Range Statement

RANGE STATEMENT

7) This relates to the competency standard unit as a whole providing the range of contexts and conditions to which the Performance Criteria apply. It allows for different work environments and situations that will affect performance.

This Unit shall/may be demonstrated in relation to conducting isolation procedures for permit to work system for a Gas Industry work site.

The following constants and variables included in the element/Performance Criteria in this unit are fully described in the Definitions Section of this volume and form an integral part of the Range Statement of this unit:

Strategies

Budget

Reference information

Communication

Documentation (5)

Preparation and implementation strategies

Unit Sector(s)

Not Applicable

Literacy and numeracy skills

Literacy and numeracy skills 2.2)

Participants are best equipped to achieve this unit if they have reading, writing and numeracy skills indicated by the following scales. Description of each scale is given in Volume 2, Part 3 'Literacy and Numeracy'

Reading	4	Writing	4	Numeracy	4
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Competency Field

Competency Field 4)

Cross discipline.

