



Australian Government

UEGNSG111 Produce maintenance strategies and plans for a gas facility

Release: 1

UEGNSG111 Produce maintenance strategies and plans for a gas facility

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 develop and produce maintenance strategies and plans for a gas facility.

It includes reviewing existing maintenance strategies, researching, budgeting, communicating with relevant stakeholders, planning to implement new strategies and documenting plans and strategies.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable

Competency Field

Gas Cross Discipline

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

- 1 Review existing maintenance strategies and research and plan to implement new strategies**

PERFORMANCE CRITERIA

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

- 1.1** Existing strategies are reviewed for maintenance requirements in accordance with work schedule and workplace procedures

- 1.2 Workplace and site plans are reviewed for potential impact on required maintenance work
 - 1.3 Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant person/s in accordance with job requirements and workplace procedures
 - 1.4 Hazards are identified, risks are assessed and control measures are implemented
 - 1.5 Job requirements and workplace procedures are obtained for all work sites and communicated to relevant person/s in accordance with workplace procedures
 - 1.6 Maintenance and economic costs are estimated and evaluated and legal implications researched to ensure work is undertaken in accordance with budgetary and regulatory requirements
 - 1.7 Resources, including person/s and equipment, required for the maintenance work are identified, scheduled, coordinated and confirmed in accordance with the maintenance plan and workplace procedures
 - 1.8 Clients are provided with possible solutions and options within the scope, acceptable cost and requirements
 - 1.9 Communication issues with relevant stakeholders are resolved and work coordinated in accordance with work schedule and workplace procedures
 - 1.10 Person/s participating in the work are briefed and responsibilities coordinated and authorised in accordance with workplace procedures
 - 1.11 Site is prepared to minimise risk and damage to property, commerce and individuals in accordance with workplace procedures
- 2 **Establish strategies and implement a maintenance plan**
 - 2.1 Work health and safety (WHS)/occupational health and safety (OHS), environmental and sustainable energy policies are obtained to ensure safe work practices are followed in accordance with workplace procedures
 - 2.2 Resources required to implement maintenance strategies are coordinated and work performed and monitored in accordance with work schedule and maintenance plan

- 2.3 Potential timeframe and maintenance scheduling variances are identified and monitored and preventative action taken and control measures implemented where necessary
 - 2.4 Planned strategy objectives and required outcomes are documented in accordance with maintenance plan and workplace procedures
 - 2.5 Work is supervised to ensure completion in agreed timeframe and to industry standards with a minimum of waste in accordance with maintenance plan and workplace procedures
 - 2.6 Unplanned situations are responded to in accordance with workplace procedures, in a manner that minimises risk to personnel and equipment
 - 2.7 Quality and safety checks of the work are undertaken in accordance with job requirements, workplace procedures community and industry standards
- 3 **Implement and document maintenance strategy**
 - 3.1 Maintenance strategies and plans are implemented to facilitate required outcomes in accordance with workplace procedures and regulatory requirements
 - 3.2 Variances required to the implemented strategies are identified and corrective action taken in accordance with risk management planning process
 - 3.3 Relevant documentation and final reports are completed in accordance with workplace procedures and regulatory requirements

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 UEGNSG111B Produce maintenance strategies and plans for a gas facility.

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 UEGNSG111 Produce maintenance strategies and plans for a gas facility

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 engineering and maintenance principles
- applying planning skills
- applying problem-solving skills
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and legislations, including:
 - hazard identification and reporting
 - implementing risk control measures
 - working safely with hazardous materials and equipment
 - workplace, site safety and emergency response procedures
- applying sustainable energy and environmental principles and practices
- communicating with relevant stakeholders
- dealing with unplanned events/situations in accordance with workplace procedures, in a manner that minimises risk to personnel and equipment
- determining strategies to implement a maintenance plan
- identifying maintenance plan variances and making relevant changes
- implementing and documenting maintenance strategy
- researching and planning to implement new strategies
- reviewing existing strategies
- reviewing workplace and site plans.

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:

- budgetary requirements
- conflict resolution techniques
- coordination of maintenance activities

- effective communication techniques
- emergency management concepts and principles
- engineering and maintenance principles
- legal implications
- maintenance and economic costs
- maintenance philosophies
- maintenance plans
- maintenance scheduling
- planning of scheduled and non-scheduled maintenance of applicable gas infrastructure
- problem solving and decision-making techniques
- project management techniques in maintenance planning and implementation, including gas industry projects
- quality and safety checks
- relevant industry standards, guidelines, codes of practice and regulations
- relevant manufacturer specifications
- relevant stakeholders, including:
 - authorised persons, authorities, clients, tenants and land owners
 - plant operators, contractors
 - internal colleagues
- relevant WHS/OHS legislated requirements, including:
 - hazards, risk assessment and control measures
 - environmental and sustainable energy principles and practices
 - personal protective equipment (PPE)
 - reporting hazards, including hazardous events
 - responding to emergencies and unplanned events
- relevant workplace documentation, including site plans
- relevant workplace policies and procedures
- techniques for utilities industry supervision/management
- workplace operational and maintenance strategies.

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.

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