



Australian Government

UEGNSG039 Test new residential and small commercial gas installations

Release: 1

UEGNSG039 Test new residential and small commercial gas installations

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 test new residential and small commercial gas installations and associated components by a designated gas industry person in accordance with workplace procedures and relevant legislation, industry standards, regulations and codes of practice.

It includes using tools and testing equipment to pressure test the customer piping system and associated gas meter connection filters, regulators and components. It also includes completing required records and appropriate 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

Not applicable.

Competency Field

Support Services

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

- 1 Prepare to test new gas installation**
 - 1.1** 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** 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
 - 1.7** Materials, plans, diagrams, drawings and resources required for work are confirmed and obtained in accordance with workplace procedures
- 2 Test new gas installation**
 - 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** Conformance test is undertaken using correct tools and equipment in accordance with workplace procedures and industry standards
 - 2.4** Conformance test of new gas installation is undertaken using appropriate pressure testing, protection and stray current testing equipment in accordance with company procedures and regulatory requirements

- 2.5 Customer piping system and associated components, including appliances, are tested for conformance to industry standards and regulatory requirements
 - 2.6 Results of conformance test are analysed, and non-compliant installations are disconnected in accordance with workplace procedures, industry standards and regulatory requirements
 - 2.7 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.8 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.9 Faults and operational conditions of the components are identified, repaired or replaced, and reported in accordance with organisational job requirements
 - 2.10 Unplanned events are referred to the relevant person/s for directions in accordance with workplace procedures
- 3 Complete work and relevant documentation**
- 3.1 Workplace safety risk control measures for work completion are followed
 - 3.2 Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards
 - 3.3 Worksite is cleaned, reinstated and made safe in accordance with workplace procedures
 - 3.4 Tools, equipment and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures
 - 3.5 Incidents are reported and followed up as required in accordance with workplace procedures
 - 3.6 Relevant person/s is notified of work completion in accordance with workplace procedures
 - 3.7 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 replaces and is equivalent to UEGNSG706 Test new residential and small commercial gas installations.

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 UEGNSG039 Test new residential and small commercial gas installations

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:

- advising stakeholders of potentially dangerous or non-conforming installations
- analysing results of tests
- applying environmental and sustainable energy principles and practices
- applying problem-solving techniques
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying relevant workplace safety requirements, including:
 - identifying and reporting hazards
 - implementing risk control measures
 - selecting and using relevant personal protective equipment (PPE)
- communicating effectively with relevant personnel and customers
- completing records and documentation
- completing the work and relevant documentation
- conducting conformance tests
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- disconnecting non-compliant installations
- following work schedules and job requirements
- following workplace policies and procedures
- maintaining a clean and safe worksite
- performing quality, safety and final checks
- preparing to test new gas installation
- testing new gas installation
- using pressure testing tools and equipment
- using tools and equipment to test residential and small commercial gas installation.

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:

- appliance installation requirements to relevant standards and regulatory requirements
- client issues
- communication skills to liaise with internal and external person/s
- conformance tests
- documentation and reporting requirements
- piping systems and components
- pressure testing of gas installation to industry standards
- problem-solving techniques
- procedures for testing residential and small commercial new gas installations to relevant standards and regulatory requirements
- protection testing and stray current testing
- quality, safety and final checks
- relevant manufacturer specifications
- relevant industry standards, legislation, guidelines, codes of practice and regulations
- relevant workplace safety policies and procedures, including:
 - hazard identification
 - risk assessment and control
 - relevant PPE
 - environmental and sustainable energy principles and practices
 - safety requirements for entering domestic and commercial customer sites
- relevant materials, tools, equipment and testing devices
- relevant permits required
- 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 workplace documentation
- relevant workplace policies and procedures
- small commercial new gas installations and components.

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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