



Australian Government

UEGNSG203 Evaluate and extinguish gas fire

Release: 1

UEGNSG203 Evaluate and extinguish gas fire

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 evaluate and extinguish gas fire. It includes preparing for a fire response, carrying out initial evaluation of the fire, extinguishing the fire and concluding a fire response.

This unit applies to those who may be required to provide the initial response to fire.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Workplace policies and procedures must be consulted and adhered to.

Those undertaking this unit would work independently and as part of a team, under direct and/or indirect supervision, use discretion and judgement, and take responsibility for the quality of their output.

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

Pre-requisite Unit

Not applicable

Competency Field

Gas Distribution

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 Evaluate a gas fire

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS), environmental risk control measures and workplace procedures are identified, evaluated and prioritised
- 1.2** The location, nature, type and extent of the gas fire emergency are identified and evaluated in a timely appropriate manner
- 1.3** First response requirements are determined in order to evaluate the need to attack the gas fire emergency or evacuate the affected areas and notify responsible authorities
- 1.4** Resources, including person/s, equipment, tools and personal protective equipment (PPE), required for the job are identified, coordinated, obtained and checked for correct operation and safety in accordance with workplace procedures
- 1.5** Alternatives to extinguishing a fire are identified and most appropriate course of action is determined
- 1.6** Identify and notify appropriate authorities if required

2 Extinguish a gas fire

- 2.1** Fire is approached taking into account gas related hazards and site conditions
- 2.2** Extinguishing techniques, equipment and media appropriate to gaseous environment are used
- 2.3** Workplace emergency and fire response procedures are followed

3 Conclude a gas fire response

- 3.1** The site is evaluated and monitored for risk of reignition
- 3.2** Incident site evidence is preserved
- 3.3** Equipment, tools and personal protective equipment (PPE) used for the job are collected, stowed safely and maintained or replaced as necessary
- 3.4** Documenting and reporting activities are carried out 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 is a new unit.

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 UEGNSG203 Evaluate and extinguish gas fire

Modification History

Release 1. This is the first release of this unit of competency in the UEG - Gas Industry Training Package.

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 occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - actioning and reporting accidents and incidents
 - applying relevant legislation standards, regulations and codes of practice
 - applying relevant workplace policies and procedures
 - hazard identification and reporting
 - implementing risk control measures
- assessing the incident and recommending a safe working site or zone
- cleaning and maintaining the area after the work is completed in accordance with workplace procedures/policies
- collecting and stowing equipment, tools and personal protective equipment (PPE) after the job is completed
- completing required documentation and reporting
- confirming emergency/incident and preparing to respond to an emergency
- dealing with unplanned events and situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- evaluating the incident site and collecting evidence
- extinguishing fire using the right equipment taking into account surrounding environment and other hazard conditions
- following emergency and fire response procedures
- identifying and evaluating threats to the integrity of gas pipelines and work site
- using the right extinguishing techniques and the appropriate equipment and media to extinguish at least two of the following types of fire:
 - a gas ground surface fire
 - a gas meter fire
 - an impinging fire
 - an upright fire.

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:

- criteria for determining whether to monitor, extinguish or isolate a gas fire
- different causes of fire
- extinguishing techniques
- hazardous substances and dangerous goods
- hazards, risk assessments and control measures
- relevant legislation, industry standards, regulations and codes of practice
- relevant WHS/OHS legislated requirements
- relevant workplace documentation, report and records
- relevant workplace policies and procedures including gas isolation
- sources of reignition
- the impact of fires on the operating conditions of the gas assets including:
 - gas flow
 - integrity of pipe and cylinder material
 - pressure fluctuations
- the properties of gases and gas fires
- types of extinguishing media for gas fires
- types of personal protective clothing and equipment
- WHS/OHS hazard control measures and risk assessments.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in simulated workplace operational situations that replicate fire conditions. Use of alternative similar gaseous fuels is appropriate.

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 personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>