



**Australian Government**

# **UEG30122 Certificate III in Gas Supply Industry Operations**

**Release 1**

# UEG30122 Certificate III in Gas Supply Industry Operations

## Modification History

**Release 1.** This is the first release of this qualification in the UEG Gas Industry Training Package.

## Qualification Description

This qualification provides competencies to conduct gas supply industry activities, including installation, maintenance, fault find and repair, operations of distribution and transmission gas pipelines, cylinders and associated equipment.

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

## Entry Requirements

There are no entry requirements for this qualification.

## Packaging Rules

**A total of 18 units of competency comprising:**

**6 core units** listed below, **plus**

**6 gas elective units** from Group A, **plus**

**4 imported elective units** from Group B, **and**

the remaining **2 elective units** may be selected from Group A or Group B or with appropriate contextualisation from a qualification in this or any endorsed Training Package, provided selected units contribute to the vocational outcome of the qualification

### Core Units

BSBLDR301	Support effective workplace relationships
BSBPEF301	Organise personal work priorities
UEGNSG002	Apply environmental policies and procedures in the gas supply industry
UEGNSG031	Prepare to work in the gas industry
UEGNSG033	Carry out basic work activities in a gas industry work environment
UEGNSG041	Apply safe working practices in the gas supply industry

**Group A - Gas elective units**

UEGNSG007	Assess the operational capability of gas safety equipment on a delivery vehicle
UEGNSG010	Conduct general excavations
UEGNSG011	Conduct isolations under the permit to work system for gas industry worksites └ MSMWHS217 Gas test atmospheres
UEGNSG012	Construct and lay plastic gas distribution mains
UEGNSG013	Construct, lay and connect a gas distribution service to a main
UEGNSG014	Control industrial gas storage/processing operations
UEGNSG015	Coordinate gas transmission pipeline repairs and modifications
UEGNSG016	Establish right of way access and maintain transmission pipeline easement
UEGNSG017	Fill by weight industrial gas cylinders
UEGNSG018	First on site response to gas pipeline emergencies
UEGNSG019	Inspect, test and maintain gas cylinders
UEGNSG020	Load, unload, exchange and connect industrial gas cylinders
UEGNSG021	Maintain multi-stage, multi-run pressure control devices └ UEGNSG040 Use a portable detector to locate a combustible gas escape └ UEGNSG022 Maintain single stage, single run pressure control devices
UEGNSG022	Maintain single stage, single run pressure control devices └ UEGNSG040 Use a portable detector to locate a combustible gas escape
UEGNSG025	Monitor and operate complex flow control, measuring and regulating devices
UEGNSG026	Perform routine maintenance on distribution pipelines and facilities
UEGNSG027	Perform routine maintenance on transmission pipeline facilities and equipment └ UEGNSG040 Use a portable detector to locate a combustible gas escape

- └ UEGNSG011 Conduct isolations under the permit to work system for gas industry worksites
- UEGNSG028 Perform scheduled maintenance on gas processing or storage facilities and equipment
- UEGNSG030 Store and handle bulk industrial gases
- UEGNSG032 Carry out aerial surveillance of gas transmission pipelines
- UEGNSG034 Carry out surveillance of gas transmission pipelines
- UEGNSG035 Respond to gas infrastructure emergencies
- UEGNSG036 Supervise and monitor contract work
- UEGNSG038 Supervise the operation of plant and equipment for the construction of gas transmission pipelines
- UEGNSG039 Test new residential and small commercial gas installations
- UEGNSG040 Use a portable detector to locate a combustible gas escape
- UEGNSG042 Pressure test residential and small commercial gas installations
- UEGNSG043 Relight Type A gas appliances
- UEGNSG044 Repair and maintain stationary gas fuelled turbine engines
- UEGNSG045 Carry out surveillance on gas distribution assets
- UEGNSG046 Coat metallic pipelines
- UEGNSG048 Conduct butt fusion of large diameter polyethylene gas pipeline systems
- UEGNSG049 Control excavations in the vicinity of gas transmission pipelines
  - └ UEGNSG058 Locate, prove and protect utility assets
- UEGNSG050 Control field pipeline operations
- UEGNSG052 Establish a utilities infrastructure worksite
- UEGNSG053 Install and commission stationary gas fuelled turbine engines
  - └ CPCWHS1001 Prepare to work safely in the construction industry
  - └ HLTAID009 Provide cardiopulmonary resuscitation
- UEGNSG054 Install cathodic protection systems
- UEGNSG055 Launch and recover PIGs in a gas distribution pipeline

UEGNSG056	Launch and recover PIGs in gas transmission pipelines
UEGNSG057	Liaise with third party and the community to maintain pipeline integrity and community safety
UEGNSG058	Locate, prove and protect utility assets
UEGNSG059	Maintain cathodic protection systems
UEGNSG060	Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment └ UEGNSG040 Use a portable detector to locate a combustible gas escape
UEGNSG061	Monitor and control gas odourisation
UEGNSG062	Monitor and report on cathodic protection systems
UEGNSG063	Operate and maintain gas station water bath heaters
UEGNSG065	Install gas flow, measuring and pressure regulating devices └ UEGNSG040 Use a portable detector to locate a combustible gas escape
UEGNSG101	Undertake gas leak surveys
UEGNSG201	Conduct distribution pipeline emergency repair
UEGNSG202	Conduct emergency site control on gas distribution assets
UEGNSG203	Evaluate and extinguish gas fire
UEGNSG205	Commission or decommission gas distribution pipelines
UEGNSG206	Construct and lay copper and stainless steel gas distribution pipelines
UEGNSG208	Construct and lay large copper gas distribution pipelines
UEGNSG211	Construct and lay steel gas distribution pipelines
UEGNSG214	Coordinate and conduct gas distribution pipeline repair and modifications
UEGNSG215	Coordinate construction, laying and testing of gas distribution pipelines
UEGNSG229	Prepare simple drawings of as laid gas mains and services
UEGNSG302	Conduct transmission pipeline emergency repair
UEGNSG303	Carry out transmission pipeline construction work activities

UEGNSG304	Commission or decommission gas transmission pipelines
UEGNSG306	Control gas processing, storage or regasification operations in an LNG storage facility
UEGNSG307	Coordinate the operation of relevant plant and equipment for transmission pipeline construction
UEGNSG309	Coordinate transmission pipeline construction operations
UEGNSG312	Inject gas into underground storage
UEGNSG313	Monitor and operate flow control, pressure measuring and regulating devices for gas transmission <ul style="list-style-type: none"><li>└ UEGNSG040 Use a portable detector to locate a combustible gas escape</li></ul>
UEGNSG315	Withdraw gas from underground storage
UEGNSG316	Work in proximity of transmission pipeline construction plant and equipment
UEGNSG317	First response to a gas facility event <ul style="list-style-type: none"><li>└ CPPFES2005 Demonstrate first attack firefighting equipment</li><li>└ HLTAID011 Provide First Aid</li><li>└ UEGNSG041 Apply safe working practices in the gas supply industry repeat from above</li></ul>
UEGNSG326	Coordinate and monitor staff and contractors
UEGNSG501	Communicate with gas industry stakeholders to meet operational requirements
UEGNSG503	Monitor and control field activities
UEGNSG504	Monitor and control gas infrastructure using Control Centre systems
UEGNSG505	Operate and monitor gas infrastructure to meet nominated demand <ul style="list-style-type: none"><li>└ MSS402061 Use SCADA systems in operations</li></ul>
UEGNSG509	Remotely monitor and operate gas transmission flow and pressure measuring and regulating devices <ul style="list-style-type: none"><li>└ MSS402061 Use SCADA systems in operations</li></ul>
UEGNSG701	Disconnect and reconnect data logging equipment
UEGNSG702	Disconnect and reconnect small capacity gas meters

UEGNSG703	Fault find and repair data logging equipment
UEGNSG704	Install and commission data logging equipment
UEGNSG707	Process data logging information
UEGNSG709	Process meter reading information using appropriate technology
UEGNSG710	Read and record meter readings
UEGNSG715	Use data logging equipment
UEGNSG901	Apply safety practices, procedures, and compliance standards for handling hydrogen gas
UEGNSG902	Commission, operate and maintain electrolysers
UEGNSG903	Fault find and repair hydrogen storage equipment
UEGNSG904	Inject hydrogen gas into distribution networks
UEGNSG905	Monitor and control hydrogen in gas distribution networks
UEGNSG906	Undertake routine hydrogen storage operations

**Group B - Imported elective units**

AVIW0006	Perform infrastructure inspections using remote operated systems
BSBWHS308	Participate in WHS hazard identification, risk assessment and risk control processes
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001	Licence to perform rigging basic level └ CPCCLDG3001 Licence to perform dogging
CPCCLRG3002	Licence to perform rigging intermediate level └ CPCCLRG3001 Licence to perform rigging basic level
CPCWHS1001	Prepare to work safely in the construction industry
HLTAID009	Provide cardiopulmonary resuscitation
HLTAID011	Provide First Aid
HLTAID013	Provide First Aid in remote or isolated site
HLTWHS005	Conduct manual tasks safely

ICTICT214	Operate application software packages
MSMPMC400	Carry out stock control
MSMSUP240	Undertake minor maintenance
MSMSUP303	Identify equipment faults
MSMSUP390	Use structured problem-solving tools
MSMWHS212	Undertake first response to fire incidents
MSMWHS216	Operate breathing apparatus
MSMWHS217	Gas test atmospheres
MSS402061	Use SCADA systems in operations
MSS402080	Undertake root cause analysis
PMAOPS223	Operate and monitor valve systems
PMAOPS315	Operate and troubleshoot process control systems
PMAOPS317	Undertake ship transfer operations
PMAOPS338	Communicate and monitor pipeline activities
PMAOPS346	Operate and troubleshoot liquefaction process
PMASUP311	Operate communications hub
PMBWELD301E	Join polyethylene plastic pipelines using butt welding
PMBWELD302E	Join polyethylene plastic pipelines using electrofusion welding
RIICCM205F	Carry out manual excavation
RIICCM206E	Support plant operations
RIICCM207E	Spread and compact materials manually
RIICCM208E	Carry out basic levelling
RIICCM210E	Install trench support
RIIMPO319E	Conduct backhoe/loader operations
RIIMPO320F	Conduct civil construction excavator operations
RIISAM201E	Handle resources and infrastructure materials and safely dispose of



	nontoxic materials
RIIWHS202E	Enter and work in confined spaces
RIIWHS204E	Work safely at heights
RIIWHS302E	Implement traffic management plans
TLID0016	Operate a forklift
TLID3023	Use specialised liquid bulk gas transfer equipment
TLIF2012	Apply safe procedures when handling/transporting dangerous goods or explosives
UEPMNT367	Install and commission stationary gas fuelled reciprocating engines └ CPCS1001 Prepare to work safely in the construction industry └ HLTAID009 Provide cardiopulmonary resuscitation
UEPMNT368	Repair and maintain stationary gas fuelled reciprocating engines └ CPCS1001 Prepare to work safely in the construction industry └ HLTAID009 Provide cardiopulmonary resuscitation
UEPOPS059	Manage, operate and monitor a gas turbine unit
UEPOPS092	Operate and monitor fixed fire protection systems
UEPOPS107	Operate and monitor supervisory control and data acquisition systems
UETDREL006	Work safely in the vicinity of live electrical apparatus as a non-electrical worker

## Qualification Mapping Information

This qualification supersedes and is equivalent to UEG30121 Certificate III in Gas Supply Industry Operations.

## Links

Companion Volume Implementation Guides are found in VETNet -

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