



**Australian Government**

# **UEG40222 Certificate IV in Gas Supply Industry Operations**

**Release 1**

# UEG40222 Certificate IV 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 supervise and conduct gas supply industry activities, including installation, diagnostics and maintenance of distribution and transmission gas pipelines, cylinders and associated equipment.

The qualification also provides competencies for a person who works in a gas control centre/gas control room environment to monitor and control the flow and pressure of natural gas within transmission, distribution, storage and gathering systems, and respond to routine and emergency situations using a wide range of industry response procedures.

It may also include responsibility for supervising or coordinating the work of others

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 19 units of competency comprising:**

**5 core units** listed below, **plus**

**1 unit** from Group A Workplace safety elective units, **plus**

**6 gas elective units** from Group B Gas elective units, **plus**

**4 imported elective units** from Group C Imported elective units, **and**

the remaining **3 elective units** may be selected from Group B Gas or Group C Imported elective groups 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

BSBLDR414            Lead team effectiveness

BSBOPS402            Coordinate business operational plans

BSBPEF402	Develop personal work priorities
UEGNSG002	Apply environmental policies and procedures in the gas supply industry
UEGNSG047	Compile a gas industry technical report

**Group A - Workplace safety elective units**

BSBWHS311	Assist with maintaining workplace safety
UEECD0024	Implement and monitor energy sector WHS policies and procedures
UEGNSG041	Apply safe working practices in the gas supply industry

**Group B - Gas elective units**

UEGNSG007	Assess the operational capability of gas safety equipment on a delivery vehicle
UEGNSG011	Conduct isolations under the permit to work system for gas industry worksites └ MSMWHS217 Gas test atmospheres
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
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
UEGNSG024	Monitor and control the transfer of bulk industrial gas
UEGNSG025	Monitor and operate complex flow control, measuring and regulating devices
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
UEGNSG029	Process, mix and blend industrial gases
UEGNSG030	Store and handle bulk industrial gases
UEGNSG031	Prepare to work in the gas industry
UEGNSG032	Carry out aerial surveillance of gas transmission pipelines
UEGNSG033	Carry out basic work activities in a gas industry work environment
UEGNSG034	Carry out surveillance of gas transmission pipelines
UEGNSG035	Respond to gas infrastructure emergencies
UEGNSG036	Supervise and monitor contract work
UEGNSG037	Supervise technical operations for gas distribution or transmission
UEGNSG038	Supervise the operation of plant and equipment for the construction of gas transmission pipelines
UEGNSG040	Use a portable detector to locate a combustible gas escape
UEGNSG041	Apply safe working practices in the gas supply industry
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
UEGNSG051	Coordinate repair of pipeline, facilities and equipment
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
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
UEGNSG064	Operate and monitor pipeline control systems
UEGNSG202	Conduct emergency site control on gas distribution assets
UEGNSG205	Commission or decommission 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
UEGNSG301	Conduct emergency site control on gas transmission assets
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
UEGNSG315	Withdraw gas from underground storage
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
UEGNSG502	Implement emergency and critical incident response for gas infrastructure incidents
UEGNSG503	Monitor and control field activities
UEGNSG504	Monitor and control gas infrastructure using Control Centre systems
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>
UEGNSG703	Fault find and repair data logging equipment
UEGNSG704	Install and commission data logging equipment
UEGNSG707	Process data logging information
UEGNSG715	Use data logging equipment
UEGNSG902	Commission, operate and maintain electrolysers
UEGNSG903	Fault find and repair hydrogen storage equipment
UEGNSG904	Inject hydrogen gas into distribution networks

### **Group C - Imported elective units**

BSBLDR301	Support effective workplace relationships
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BSBOPS404	Implement customer service strategies
CPCWHS1001	Prepare to work safely in the construction industry
CPCPCM4012	Estimate and cost work
CPPFES2005	Demonstrate first attack firefighting equipment
HLTAID009	Provide cardiopulmonary resuscitation
HLTAID011	Provide First Aid
HLTAID013	Provide First Aid in remote or isolated site
ICTICT214	Operate application software packages
MSL974019	Perform chemical tests and procedures
MSL975040	Apply routine chromatographic techniques └ MSL974019 Perform chemical tests and procedures
MSL975047	Apply complex instrumental techniques └ MSL974019 Perform chemical tests and procedures
MSMOPS400	Optimise process/plant area
MSMPER200	Work in accordance with an issued permit
MSMPER201	Monitor and control work permits
MSMPER300	Issue work permits └ MSMWHS201 Conduct hazard analysis
MSMPER400	Coordinate permit process └ MSMPER300 Issue work permits
MSMPMC400	Carry out stock control
MSMSUP210	Process and record information
MSMWHS201	Conduct hazard analysis
MSMWHS205	Control minor incidents
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
PMAOMIR210	Control evacuation to muster point
PMAOMIR346	Assess and secure an incident site
PMAOMIR407	Audit incident preparedness and established response systems
PMAOMIR418	Coordinate incident response
PMAOMIR430	Conduct and assess incident exercises
PMAOMIR444	Develop incident containment tactics
PMAOPS223	Operate and monitor valve systems
PMAOPS317	Undertake ship transfer operations
PMAOPS346	Operate and troubleshoot liquefaction process
PMAOPS402	Respond to abnormal process situations └ MSMSUP390 Use structured problem-solving tools
PMAOPS405	Operate complex control systems
PMAOPS410	Operate remote production facilities
PMASUP410	Develop plant documentation
PMASUP444	Plan plant preparation and isolation
PMAWHS211	Prepare equipment for emergency response
PMAWHS310	Investigate incidents
PMAWHS311	Lead emergency teams
TLIC0003	Operate LP gas tanker └ TLILIC0001 Licence to transport dangerous goods by road
TLID0016	Operate a forklift
TLID0018	Prepare for transport of dangerous goods
TLID3023	Use specialised liquid bulk gas transfer equipment



TLID3036	Lift and move load using a mobile crane
TLIF0012	Implement and coordinate accident-emergency procedures
TLIF0014	Monitor the safety of transport activities (Chain of Responsibility)
TLIF0021	Administer the implementation of fatigue management strategies
TLIF2006	Apply accident-emergency procedures
TLIF2010	Apply fatigue management strategies
TLIF2012	Apply safe procedures when handling/transporting dangerous goods or explosives
TLIF3096	Carry out emergency response to a dangerous goods incident
TLIF4065	Ensure compliance with Australian Dangerous Goods Code
TLIF4066	Implement and supervise transport regulations compliance systems
TLIL4059	Implement asset management systems
TLILIC0001	Licence to transport dangerous goods by road
UEECO0002	Maintain documentation
UEPMNT367	Install and commission stationary gas fuelled reciprocating engines └ CPCCWHS1001 Prepare to work safely in the construction industry └ HLT AID009 Provide cardiopulmonary resuscitation
UEPMNT368	Repair and maintain stationary gas fuelled reciprocating engines └ CPCCWHS1001 Prepare to work safely in the construction industry └ HLT AID009 Provide cardiopulmonary resuscitation
UEPOPS059	Manage, operate and monitor a gas turbine unit
UEPOPS085	Operate and monitor communications system
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 replaces and is not equivalent to UEG40221 Certificate IV in Gas Supply Industry Operations and UEG40120 Certificate IV in Gas Control Operations

## Links

Companion Volume Implementation Guides are found in VETNet -

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