



**Australian Government**

# **UEG30114 Certificate III in Gas Supply Industry Operations**

**Release 1**

# **UEG30114 Certificate III in Gas Supply Industry Operations**

## **Modification History**

Not applicable.

## **Description**

### **Scope**

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.

It is an Australia Qualification Framework (AQF) level 3 qualification and provides the required knowledge and skills to carry out work activities autonomously and takes responsibility for their own work

## **Pathways Information**

Not applicable.

## **Licensing/Regulatory Information**

Not applicable.

## **Entry Requirements**

Not applicable.

## **Employability Skills Summary**

Not applicable.

## Packaging Rules

### Completion requirements

The requirements for granting this qualification will be met when competency is demonstrated and achieved for:

- All the Core competency standard units to achieve a total weighting of 300 points, defined in the Core Competency Standard Units table below and
- A combination of Elective competency standard units to achieve a total weighting of 660 points in accordance with the Elective Competency Standard Units tables below, resulting in the achievement of overall weighting of 960 points.
- All the required pre-requisite competency standard units have been met as required.

<b>Core Competency Standard Units</b>		<b>Weighting Points</b>
All Core competency standard units to be achieved		
UEGNSG005A	Prepare to work in the gas industry	20
UEGNSG132A	Carry out basic work activities in a gas industry work environment	60
UEGNSG133A	Comply with environmental policies and procedures in the utilities industry	40
UEGNSG141A	Apply Workplace Health and Safety regulations, codes and practices in the gas supply industry	20
BSBFLM303C	Contribute to effective workplace relationships	40
BSBFLM312C	Contribute to team effectiveness	40
BSBWHS301A	Maintain workplace safety	40
BSBWOR301B	Organise personal work priorities and development	40
<b>Total points in core</b>		<b>300</b>

### Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of **660** points from the following groups:

<b>Group</b>	<b>Minimum points</b>	<b>Maximum points</b>

<b>A</b>	<b>Imported and Common Elective Units</b> Imported units from other qualifications, training packages and/or state accredited courses can be added to this group, but they must be at AQF level 3. If units have not being assigned a weighting by the relevant E-Oz Industry Technical Advisory Committee, their weighting will be 10 points. Note: For further information see Application of the NQC Flexibility Formula, refer to UEG11 Gas Industry Training Package, Version 2, Qualification Framework.	<b>0</b>	<b>160</b>
<b>B</b>	<b>Qualification AQF 2 Electives</b> You may select some elective units from this Group	<b>0</b>	<b>180</b>
<b>C</b>	<b>Qualification AQF 3 Electives</b> You may select all your elective units from this Group	<b>330</b>	<b>660</b>
<b>D</b>	<b>Qualification AQF 4 Electives</b> You may select some elective units from this Group	<b>0</b>	<b>130</b>

<b>Group A – Imported and Common Elective Units</b>		<b>Weighting Points</b>
You may complete units to maximum weighting of <b>160</b> points		
BSBFLM305C	Support operational plan	40
BSBFLM306C	Provide workplace information and resourcing plans	40
BSBFLM309C	Support continuous improvement systems and processes	40
BSBFLM311C	Support a workplace learning environment	40
BSBINN301A	Promote innovation in a team environment	40
BSBWHS303A	Participate in WHS hazard identification, risk assessment and risk control	50
CPCCLDG3001A	Licence to perform dogging	30
CPCCLRG3001A	Licence to perform rigging basic level	40
CPCCLRG3002A	Licence to perform rigging intermediate level	40

CPCCOHS1001 A	Work safely in the construction industry	10
CPPFES2005A	Demonstrate first attack firefighting equipment	15
HLTAID001	Provide cardiopulmonary resuscitation	10
HLTAID003	Provide first Aid	10
HLTAID005	Provide first aid in remote situations	10
HLTHSE204D	Follow safe manual handling practices	20
MEM05004C	Perform routine oxy acetylene welding	20
MEM05012C	Perform routine manual metal arc welding	20
MEM05015D	Weld using manual metal arc welding process	40
MSAPMOHS1 10A	Follow emergency response procedures	20
MSAPMOHS2 05A	Control minor incidents	30
MSAPMOHS2 16A	Operate breathing apparatus	20
MSAPMOHS2 17A	Gas test atmospheres	30
MSAPMPER20 0C	Work in accordance with an issued permit	20
MSAPMPER20 1A	Monitor and control work permits	20
MSAPMPER20 2A	Observe permit work	20
MSAPMPER30 0C	Issue work permits	20
MSAPMPER40 0A	Coordinate permit process	30
MSAPMSUP20 0A	Achieve work outcomes	30

MSAPMSUP21 0A	Process and record information	30
MSAPMSUP24 0A	Undertake minor maintenance	30
MSAPMSUP30 3A	Identify equipment faults	40
MSAPMSUP39 0A	Use structured problem solving tools	40
MSS402061A	Use SCADA systems in operations	30
MSS402080A	Undertake root cause analysis	50
PMAOHS211B	Prepare equipment for emergency response	20
PMAOHS310B	Investigate incidents	30
PMAOHS311B	Lead emergency teams	20
PMAOMIR210 B	Control evacuation to muster point	20
PMAOMIR346 B	Assess and secure an incident site	30
PMAOPS305B	Operate process control systems	60
PMAOPS312B	Undertake ship loading/unloading operations	40
PMAOPS330B	Communicate and monitor pipeline activities	40
PMASUP311A	Operate communications hub	40
PMBWELD301 B	Butt weld polyethylene plastic pipelines	20
PMBWELD302 B	Electrofusion weld polyethylene pipelines	20
PMC563081C	Carry out stock control	20
RIICCM205D	Carry out manual excavation	10
RIICCM206D	Support plant operations	10
RIICCM207D	Spread and compact materials manually	10

RIICCM208D	Carry out basic levelling	10
RIICCM210D	Install trench support	15
RIICRC208D	Lay pipes	40
RIIHAN309D	Conduct Telescopic Materials Handler Operations	80
RIIMPO304D	Conduct wheel loader operations	40
RIIMPO308D	Conduct tracked dozer operations	40
RIIMPO309D	Conduct wheeled dozer operations	40
RIIMPO318D	Conduct civil construction skid steer loader operations	70
RIIMPO319D	Conduct backhoe/loader operations	50
RIIMPO320D	Conduct civil construction excavator operations	80
RIIWHS202D	Enter and work in confined spaces	30
RIIWHS204D	Work safely at heights	20
RIIWHS205D	Control traffic with stop-slow bat	10
RIIWHS302D	Implement traffic management plan	20
RIISAM201D	Handle resources and infrastructure materials and safely dispose of non-toxic materials	15
RIIWMG203D	Drain and dewater civil construction site	20
TLIB2004A	Carry out vehicle inspection	20
TLIC2002A	Drive light rigid vehicle	40
TLIC2025A	Operate four wheel drive vehicle	40
TLIC3003A	Drive medium rigid vehicle	40
TLIC3004A	Drive heavy rigid vehicle	40
TLIC3005A	Drive heavy combination vehicle	40
TLIC4067A	Operate LP gas tanker	40
TLID2003A	Handle dangerous goods/hazardous substances	40

TLID2010A	Operate a forklift	40
TLID2016A	Load and unload explosives and dangerous goods	30
TLID3015A	Identify and label explosives and dangerous goods	20
TLID3023A	Use specialised liquid bulk gas transfer equipment	40
TLID3027A	Prepare for transport of dangerous goods	50
TLID3033A	Operate a vehicle-mounted loading crane	40
TLID3036A	Lift and move load using a mobile crane	40
TLIF2006A	Apply accident-emergency procedures	20
TLIF2010A	Apply Fatigue Management Strategies	30
TLIF2012A	Apply safe procedures when handling/transporting dangerous goods or explosives	30
TLILIC0012A	Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)	40
TLILIC2001A	Licence to operate a forklift truck	40
TLILIC2014B	Licence to drive a light rigid vehicle	40
TLILIC2015B	Licence to drive a medium rigid vehicle	40
TLILIC2016B	Licence to drive a heavy rigid vehicle	50
TLILIC3006A	Licence to operate a non-slewing mobile crane (greater than 3 tonnes capacity)	60
TLILIC3008A	Licence to operate a slewing mobile crane (up to 20 tonnes)	70
TLILIC3013A	Preparation to transport dangerous goods by road	50
TLILIC3017B	Licence to drive a heavy combination vehicle	60
TLILIC3018B	Licence to drive a multi combination vehicle	60
TLILIC4009A	Licence to operate a slewing mobile crane (up to 60 tonnes)	70
UEENEEC001 B	Maintain documentation	20
UEENEED101	Use computer applications relevant to a workplace	20



A		
	<p>Imported units from other qualifications, training packages and/or state accredited courses can be added to this group, but they must be selected from qualifications where the unit is first packaged at AQF level 3. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.</p> <p>Note: For further information see Application of the NQC Flexibility Formula, Page 10, UEG11 Gas Industry Training Package, Version 1, Volume 1 Qualification Framework</p>	<b>Up to 160 points</b>

<b>Group B – Qualification AQF 2 Electives</b>		<b>Weighting Points</b>
You may complete units to maximum weighting of <b>180</b> points		
UEENEEE102 A	Fabricate, assemble and dismantle utilities industry components	40
UEENEEE107 A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEM080 A	Report on the integrity of explosion-protected equipment in a hazardous area	20
UEGNSG004A	Locate, prove and protect utility assets	60
UEGNSG006A	Use a portable gas detector to locate escape	40
UEGNSG134A	Establish a utilities infrastructure work site	60
UEGNSG136A	Carry out transmission pipeline construction work activities	60
UEGNSG140A	Apply environmental policies and procedures in the utilities industry	20
UEGNSG219A	Conduct excavations in the utilities industry	60
UEGNSG221A	First on site response to gas pipeline emergencies	90
UEGNSG224A	Construct and lay copper and stainless steel gas distribution pipelines	60
UEGNSG226A	Assist with the construction, laying and connection of gas distribution services to mains	40
UEGNSG227A	Assist with the construction and laying of gas distribution mains	40
UEGNSG330A	Coat metallic pipelines	80
UEGNSG331A	Establish right of way access for transmission pipeline construction	60
UEGNSG332A	Undertake hydro-testing for transmission pipeline construction	60
UEGNSG333A	Work in proximity of transmission pipeline construction plant and equipment	40

<b>Group B – Qualification AQF 2 Electives</b>		<b>Weighting Points</b>
You may complete units to maximum weighting of <b>180</b> points		
UEGNSG342A	Maintain pipeline easements	40
UEGNSG615A	Fill LPG cylinders	80
UEGNSG616A	Refurbish gas cylinders	80
UEGNSG705A	Disconnect and reconnect small capacity gas meters	40
UEGNSG708A	Pressure Test Residential and Small Commercial Gas Installations	40
UEGNSG711A	Process meter reading information using appropriate technology	40
UEGNSG712A	Read and record meter readings	40
UEGNSG714A	Relight Type A gas appliances	60
UEGNSG804A	Maintain single stage and single run gas flow and pressure control and measuring devices	80
UEPOPS203B	Operate and Monitor Communications System	20
UEPOPS205B	Conduct Minor Mechanical Maintenance	30
UETTDREL14 A	Working safely near live electrical apparatus as a non-electrical worker	40

<b>Group C – Qualification AQF 3 Electives</b>		<b>Weighting Points</b>
At least <b>330</b> points to be achieved from this group. You may select all your elective units from this Group.		
UEENEEM020 A	Attend to breakdowns in hazardous areas — gas atmospheres	20
UEENEEM076 A	Use and maintain the integrity of a portable gas detection device	20
UEGNSG135A	Monitor and control gas odourisation	100
UEGNSG137A	Operate and maintain gas station water bath heaters	60
UEGNSG138A	Install and commission stationary gas fuelled turbine engines	60

<b>Group C – Qualification AQF 3 Electives</b>		<b>Weighting Points</b>
At least <b>330</b> points to be achieved from this group. You may select all your elective units from this Group.		
UEGNSG139A	Repair and maintain stationary gas fuelled turbine engines	60
UEGNSG142A	Conduct isolations under the permit to work system for gas industry work sites	80
UEGNSG212B	Construct, lay and connect a gas distribution service to a plastic main	60
UEGNSG213B	Construct, lay and connect a gas distribution service to a steel main	60
UEGNSG216A	Commission or decommission gas distribution pipelines	100
UEGNSG217A	Launch and recover PIGs in a gas distribution pipeline	100
UEGNSG218A	Carry out surveillance on gas distribution assets	90
UEGNSG220A	Construct and lay Polyethylene gas distribution mains	60
UEGNSG222A	Construct and lay nylon or PVC gas distribution mains	60
UEGNSG223A	Construct and lay steel gas distribution pipelines	60
UEGNSG225A	Perform routine maintenance on distribution pipeline facilities and equipment	100
UEGNSG228A	Construct and lay large copper gas distribution pipelines	60
UEGNSG229A	Prepare simple drawings of as laid gas mains and services	40
UEGNSG344A	Commission or decommission gas transmission pipelines	120
UEGNSG346A	Launch and recover PIGs in gas transmission pipelines	100
UEGNSG347A	Perform routine maintenance on transmission pipeline facilities and equipment	110
UEGNSG348A	Supervise the operation of plant and equipment for the construction of gas transmission pipelines	60
UEGNSG349A	Carry out surveillance of gas transmission pipelines	110
UEGNSG350A	First response to a gas facility event	60
UEGNSG352A	Check and report on gas station conditions	40

<b>Group C – Qualification AQF 3 Electives</b>		<b>Weighting Points</b>
At least <b>330</b> points to be achieved from this group. You may select all your elective units from this Group.		
UEGNSG353A	Carry out aerial surveillance of gas transmission pipelines	60
UEGNSG354A	Control excavations in the vicinity of gas transmission pipelines	60
UEGNSG355A	Monitor and report on cathodic protection systems	60
UEGNSG356A	Monitor and operate flow control, pressure measuring and regulating devices for gas transmission	100
UEGNSG411A	Maintain cathodic protection systems	100
UEGNSG412A	Install cathodic protection systems	110
UEGNSG506A	Respond to gas infrastructure emergencies	80
UEGNSG507A	Remotely monitor and operate gas transmission flow and pressure measuring and regulating devices	90
UEGNSG508A	Remotely check and report on gas station conditions	40
UEGNSG614A	Load, unload, exchange and connect LPG cylinders	80
UEGNSG617A	Monitor and control the transfer of bulk LPG	100
UEGNSG618A	Process Liquefied Petroleum Gas (LPG)	100
UEGNSG619A	Perform scheduled maintenance on gas processing or storage facilities and equipment	110
UEGNSG620A	Organise the repair of faults in LPG processing or storage facilities and equipment	80
UEGNSG621A	Control bulk storage of LPG	110
UEGNSG622A	Assess the operational capability of gas safety equipment on a delivery vehicle	40
UEGNSG706A	Test New Residential and Small Commercial Gas Installations	60
UEGNSG713A	Investigate billing exceptions-conditions	60
UEGNSG805A	Maintain multi-stage and multi-run gas flow and pressure measuring and regulating devices	80
UEGNSG807A	Install Gas Flow, Measuring and Pressure Regulating Devices	80

<b>Group C – Qualification AQF 3 Electives</b>		<b>Weighting Points</b>
At least <b>330</b> points to be achieved from this group. You may select all your elective units from this Group.		
UEGNSG811A	Monitor and operate complex flow control, measuring and regulating devices for gas distribution	110
UEPMNT367A	Install and commission stationary gas fuelled reciprocating engines	60
UEPMNT368A	Repair and maintain stationary gas fuelled reciprocating engines	60
UEPOPS317B	Operate and Monitor Fixed Fire Protection Systems	30
UEPOPS336B	Manage, operate and monitor a gas turbine unit	60
UEPOPS347B	Operate and monitor supervisory, control and data acquisition systems	40

<b>Group D – Qualification AQF 4 Electives</b>		<b>Weighting Points</b>
You may complete units to maximum weighting of <b>130</b> points		
UEGNSG106B	Coordinate repair of pipeline, facilities and equipment	110
UEGNSG108B	Operate and monitor pipeline control systems	60
UEGNSG109B	Control field pipeline operations	60
UEGNSG110B	Supervise technical operations for gas distribution or transmission	60
UEGNSG111B	Produce maintenance strategies and plans for a gas facility	80
UEGNSG131A	Compile a gas industry technical report	20
UEGNSG204B	Coordinate and conduct gas distribution pipeline repair and modifications	110
UEGNSG207B	Coordinate construction, laying and testing of gas distribution pipelines	110
UEGNSG210B	Supervise and monitor contract staff for work on distribution pipelines	120
UEGNSG305B	Coordinate gas transmission pipeline repair and modifications	110

<b>Group D – Qualification AQF 4 Electives</b>		<b>Weighting Points</b>
You may complete units to maximum weighting of <b>130</b> points		
UEGNSG308B	Identify, evaluate and control threats to transmission pipelines	40
UEGNSG310B	Supervise and monitor contract work	60
UEGNSG311B	Site control of third party works in the vicinity of a transmission pipeline	80
UEGNSG314B	Liaise with third party and the community to maintain pipeline integrity and community safety	40
UEGNSG319B	Custody transfer metering and gas quality analysis	80
UEGNSG324A	Follow procedures to deal with incidents related to the abuse of drugs and alcohol	60
UEGNSG325A	Coordinate the operation of relevant plant and equipment for transmission pipeline construction	80
UEGNSG326A	Coordinate and monitor staff and contractors	60
UEGNSG327A	Coordinate transmission pipeline construction operations	60
UEGNSG511A	Operate gas infrastructure to meet nominated demand	120
UEGNSG512A	Control centre communication with gas industry stakeholders	110
UEGNSG514A	Monitoring and controlling field activities	110
UEGNSG515A	Use control centre systems to monitor and control gas infrastructure	110
UEGNSG611B	Control LPG storage/processing operations	110
UEGNSG612B	Supervise technical operations for liquefied petroleum gas storage and processing	120
UEGNSG806A	Maintain SCADA controlled gas flow and pressure & electronic gas measurement equipment	100

**Note:**

1. Prerequisite pathways shall be identified and met for all elective units selected.
2. In selecting elective units considerations to career planning advice should be given to units that form part of a prerequisite pathway for the progression to achieve particular competencies

or qualification at a higher level.

**END OF QUALIFICATION**

## **Custom Content Section**

Not applicable.