



Australian Government

UEG30118 Certificate III in Gas Supply Industry Operations

Release 1

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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 960 weighting points comprising:

300 core weighting points listed below; plus

660 elective weighting points from the elective units listed below.

Choose a minimum of 660 **weighting points** elective units from the list below, of which between 0 and 160 **weighting points** can be taken from Group A, between 0 and 180 **weighting points** can be taken from Group B, between 0 and 130 **weighting points** can be taken from Group D; or **elective units** between 330 and 660 **weighting points** can be taken from Group C.

Up to 160 weighting points of the elective units Group A, may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in the UEG CVIG, if not listed weighting points will be 10 points unless directed from the Gas Industry Reference Committee (IRC). The general elective units must contribute to the vocational outcomes of the qualification.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with.

Where a prerequisite unit is attached to a unit, it is identified by this symbol ⊥.

Core units

Weighting Points

UEGNSG005	Prepare to work in the gas industry	20
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UEGNSG132	Carry out basic work activities in a gas industry work environment	60
UEGNSG133	Comply with environmental policies and procedures in the utilities industry	40
UEGNSG141	Apply workplace health and safety regulations, codes and practices in the gas supply industry	20
BSBFLM303	Contribute to effective workplace relationships	40
BSBFLM312	Contribute to team effectiveness	40
BSBWHS301	Maintain workplace safety	40
BSBWOR301	Organise personal work priorities and development	40
Group A: Imported and common elective units		Weighting Points
BSBFLM305	Support operational plan	40
BSBFLM306	Provide workplace information and resourcing plans	40
BSBFLM309	Support continuous improvement systems and processes	40
BSBFLM311	Support a workplace learning environment	40
BSBINN301	Promote innovation in a team environment	40
BSBWHS303	Participate in WHS hazard identification, risk assessment and risk control	50
CPCCLDG3001A	Licence to perform dogging	30
CPCCLRG3001A	Licence to perform rigging basic level └ CPCCLDG3001A Licence to perform dogging	40
CPCCLRG3002A	Licence to perform rigging intermediate level └ CPCCLRG3001A Licence to perform rigging basic level	40
CPCCWHS1001	Prepare to 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
HLTWHS005	Conduct manual tasks safely	20
MEM05004C	Perform routine oxy acetylene welding	20
MEM05012C	Perform routine manual metal arc welding	20
MEM05015D	Weld using manual metal arc welding process <ul style="list-style-type: none"> └ MEM05012C Perform routine manual metal arc welding └ MEM05051A Select welding processes └ MEM05052A Apply safe welding practices └ MEM12023A Perform engineering measurements └ MEM18001C Use hand tools └ MEM18002B Use power tools/hand held operations 	40
MSMWHS110	Follow emergency response procedures	20
MSMWHS205	Control minor incidents	30
MSMWHS216	Operate breathing apparatus	20
MSMWHS217	Gas test atmospheres	30
MSMPER200	Work in accordance with an issued permit	20
MSMPER201	Monitor and control work permits	20
MSMPER202	Observe permit work	20
MSMPER300	Issue work permits <ul style="list-style-type: none"> └ MSMWHS201 Conduct hazard analysis 	20
MSMPER400	Coordinate permit process <ul style="list-style-type: none"> └ MSMPER300 Issue work permits 	30
MSMSUP200	Achieve work outcomes	30
MSMSUP210	Process and record information	30

MSMSUP240	Undertake minor maintenance	30
MSMSUP303	Identify equipment faults	40
MSMSUP390	Use structured problem-solving tools	40
MSS402061	Use SCADA systems in operations	30
MSS402080	Undertake root cause analysis	50
PMAWHS211	Prepare equipment for emergency response	20
PMAWHS310	Investigate incidents	30
PMAWHS311	Lead emergency teams	20
PMAOMIR210	Control evacuation to muster point	20
PMAOMIR346	Assess and secure an incident site	30
PMAOPS305	Operate process control systems	60
PMAOPS312	Undertake ship loading/unloading operations	40
PMAOPS330	Communicate and monitor pipeline activities	40
PMASUP311	Operate communications hub	40
PMBWELD301	Butt weld polyethylene plastic pipelines	20
PMBWELD302	Electrofusion weld polyethylene pipelines	20
PMC563081	Carry out stock control	20
RIICCM205E	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
RIIHAN309E	Conduct telescopic materials handler operations	80
RIIMPO304D	Conduct wheel loader operations	40
RIIMPO308E	Conduct tracked dozer operations	40
RIIMPO309E	Conduct wheeled dozer operations	40
RIIMPO318E	Conduct civil construction skid steer loader operations	70
RIIMPO319D	Conduct backhoe/loader operations	50
RIIMPO320E	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
TLIB0002	Carry out vehicle inspection	20
TLIC2002	Drive light rigid vehicle	40
TLIC2025	Operate four wheel drive vehicle	40
TLIC3003	Drive medium rigid vehicle	40
TLIC3004	Drive heavy rigid vehicle	40
TLIC3005	Drive heavy combination vehicle	40
TLIC0003	Operate LP gas tanker └ TLILIC0001 Licence to transport dangerous goods by road	40

TLID2003	Handle dangerous goods/hazardous substances	40
TLID2010	Operate a forklift	40
TLID2016	Load and unload explosives/dangerous goods	30
TLID3015	Identify and label explosives/dangerous goods	20
TLID3023	Use specialised liquid bulk gas transfer equipment	40
TLID3027	Prepare for transport of dangerous goods	50
TLID3033	Operate a vehicle-mounted loading crane	40
TLID3036	Lift and move load using a mobile crane	40
TLIF2006	Apply accident-emergency procedures	20
TLIF2010	Apply fatigue management strategies	30
TLIF2012	Apply safe procedures when handling/transporting dangerous goods or explosives	30
TLILIC0001	Licence to transport dangerous goods by road	50
TLILIC0012	Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)	40
TLILIC2001	Licence to operate a forklift truck	40
TLILIC2014	Licence to drive a light rigid vehicle	40
TLILIC2015	Licence to drive a medium rigid vehicle	40
TLILIC2016	Licence to drive a heavy rigid vehicle	50
TLILIC3006	Licence to operate a non-slewing mobile crane (greater than 3 tonnes capacity)	60
TLILIC3008	Licence to operate a slewing mobile crane (up to 20 tonnes)	70
TLILIC3017	Licence to drive a heavy combination vehicle	60

TLILIC3018	Licence to drive a multi-combination vehicle	60
TLILIC4009	Licence to operate a slewing mobile crane (up to 60 tonnes)	70
UEENEEC001B	Maintain documentation	20
UEENEED101A	Use computer applications relevant to a workplace └ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	20

Group B: General elective units**Weighting Points**

UEENEEE102A	Fabricate, assemble and dismantle utilities industry components └ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	40
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace	40
UEENEEM080A	Report on the integrity of explosion-protected equipment in a hazardous area └ UEENEEG105A Verify compliance and functionality of general electrical installations └ UEENEEI112A Verify compliance and functionality of process control installations └ MEM07001B Perform operational maintenance of machines/equipment └ PMAOPS201B Operate fluid flow equipment	20
UEGNSG004	Locate, prove and protect utility assets	60
UEGNSG006	Use a portable gas detector to locate escape	40
UEGNSG134	Establish a utilities infrastructure work site	60
UEGNSG136	Carry out transmission pipeline construction work activities	60
UEGNSG140	Apply environmental policies and procedures in the utilities industry	20
UEGNSG219	Conduct excavations in the utilities industry	60

UEGNSG221	First on site response to gas pipeline emergencies └ CPPFES2005A Demonstrate first attack firefighting equipment └ HLT AID003 Provide first aid └ UEGNSG141 Apply workplace health and safety regulations, codes and practices in the gas supply industry	90
UEGNSG224	Construct and lay copper and stainless steel gas distribution pipelines	60
UEGNSG226	Assist with the construction, laying and connection of gas distribution services to mains	40
UEGNSG227	Assist with the construction and laying of gas distribution mains	40
UEGNSG330	Coat metallic pipelines	80
UEGNSG331	Establish right of way access for transmission pipeline construction	60
UEGNSG332	Undertake hydro-testing for transmission pipeline construction	60
UEGNSG333	Work in proximity of transmission pipeline construction plant and equipment	40
UEGNSG342	Maintain pipeline easements	40
UEGNSG615	Fill LPG cylinders	80
UEGNSG616	Refurbish gas cylinders	80
UEGNSG705	Disconnect and reconnect small capacity gas meters	40
UEGNSG708	Pressure test residential and small commercial gas installations	40
UEGNSG711	Process meter reading information using appropriate technology	40
UEGNSG712	Read and record meter readings	40
UEGNSG714	Relight Type A gas appliances	60
UEGNSG804	Maintain single stage and single run gas flow and	80

pressure control and measuring devices

UEPOPS203B	Operate and monitor communications system	20
UEPOPS205B	Conduct minor mechanical maintenance	30
UETTDREL14A	Working safely near live electrical apparatus as a non-electrical worker	40

Group C: General elective units

Weighting Points

UEENEEM020A	Attend to breakdowns in hazardous areas — gas atmospheres └ UEENEEM080A Report on the integrity of explosion-protected equipment in a hazardous area	20
UEENEEM076A	Use and maintain the integrity of a portable gas detection device └ UEENEEM080A Report on the integrity of explosion-protected equipment in a hazardous area	20
UEGNSG135	Monitor and control gas odourisation	100
UEGNSG137	Operate and maintain gas station water bath heaters	60
UEGNSG138	Install and commission stationary gas fuelled turbine engines └ CPCCWHS1001 Prepare to work safely in the construction industry └ HLT AID001 Provide cardiopulmonary resuscitation	60
UEGNSG139	Repair and maintain stationary gas fuelled turbine engines	60
UEGNSG142	Conduct isolations under the permit to work system for gas industry work sites └ MSMWHS217 Gas test atmospheres	80
UEGNSG200	Conduct butt fusion of large diameter polyethylene gas pipeline systems	20
UEGNSG212	Construct, lay and connect a gas distribution service to a plastic main	60
UEGNSG213	Construct, lay and connect a gas distribution service to a steel main	60

UEGNSG216	Commission or decommission gas distribution pipelines	100
UEGNSG217	Launch and recover PIGs in a gas distribution pipeline	100
UEGNSG218	Carry out surveillance on gas distribution assets	90
UEGNSG220	Construct and lay polyethylene gas distribution mains	60
UEGNSG222	Construct and lay nylon or PVC gas distribution mains	60
UEGNSG223	Construct and lay steel gas distribution pipelines	60
UEGNSG225	Perform routine maintenance on distribution pipeline facilities and equipment	100
UEGNSG228	Construct and lay large copper gas distribution pipelines └ UEGNSG134 Establish a utilities infrastructure work site	60
UEGNSG229	Prepare simple drawings of as laid gas mains and services	40
UEGNSG344	Commission or decommission gas transmission pipelines	120
UEGNSG346	Launch and recover PIGs in gas transmission pipelines	100
UEGNSG347	Perform routine maintenance on transmission pipeline facilities and equipment	110
UEGNSG348	Supervise the operation of plant and equipment for the construction of gas transmission pipelines	60
UEGNSG349	Carry out surveillance of gas transmission pipelines	110
UEGNSG350	First response to a gas facility event └ CPPFES2005A Demonstrate first attack firefighting equipment └ HLT AID003 Provide first aid └ UEGNSG141 Apply workplace health and safety regulations, codes and practices in the gas industry	60
UEGNSG352	Check and report on gas station conditions	40
UEGNSG353	Carry out aerial surveillance of gas transmission pipelines	60

UEGNSG354	Control excavations in the vicinity of gas transmission pipelines └ UEGNSG004 Locate, prove and protect utility assets	60
UEGNSG355	Monitor and report on cathodic protection systems	60
UEGNSG356	Monitor and operate flow control, pressure measuring and regulating devices for gas transmission └ UEGNSG006 Use a portable gas detector to locate escape	100
UEGNSG411	Maintain cathodic protection systems	100
UEGNSG412	Install cathodic protection systems	110
UEGNSG506	Respond to gas infrastructure emergencies	80
UEGNSG507	Remotely monitor and operate gas transmission flow and pressure measuring and regulating devices └ MSS402061 Use SCADA systems in operations	90
UEGNSG508	Remotely check and report on gas station conditions └ MSS402061 Use SCADA systems in operations	40
UEGNSG614	Load, unload, exchange and connect LPG cylinders	80
UEGNSG617	Monitor and control the transfer of bulk LPG	100
UEGNSG618	Process liquefied petroleum gas (LPG)	100
UEGNSG619	Perform scheduled maintenance on gas processing or storage facilities and equipment	110
UEGNSG620	Organise the repair of faults in LPG processing or storage facilities and equipment	80
UEGNSG621	Control bulk storage of LPG	110
UEGNSG622	Assess the operational capability of gas safety equipment on a delivery vehicle	40
UEGNSG706	Test new residential and small commercial gas installations	60
UEGNSG713	Investigate billing exceptions-conditions	60

UEGNSG805	Maintain multi-stage and multi-run gas flow and pressure measuring and regulating devices └ UEGNSG006 Use a portable gas detector to locate escape └ UEGNSG804 Maintain single stage and single run gas flow and pressure control and measuring devices	80
UEGNSG807	Install gas flow, measuring and pressure regulating devices └ UEGNSG006 Use a portable gas detector to locate escape	80
UEGNSG811	Monitor and operate complex flow control, measuring and regulating devices for gas distribution	110
UEPMNT367A	Install and commission stationary gas fuelled reciprocating engines └ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace └ CPCCOHS1001A Work safely in the construction industry └ HLTCP201A Perform CPR	60
UEPMNT368A	Repair and maintain stationary gas fuelled reciprocating engines └ UEENEEE101A Apply Occupational Health Safety regulations, codes and practices in the workplace └ CPCCOHS1001A Work safely in the construction industry └ HLTCP201A Perform CPR	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
Group D: General elective units		Weighting Points
UEGNSG106	Coordinate repair of pipeline, facilities and equipment	110
UEGNSG108	Operate and monitor pipeline control systems	60
UEGNSG109	Control field pipeline operations	60
UEGNSG110	Supervise technical operations for gas distribution or	60

	transmission	
UEGNSG111	Produce maintenance strategies and plans for a gas facility	80
UEGNSG131	Compile a gas industry technical report	20
UEGNSG204	Coordinate and conduct gas distribution pipeline repair and modifications	110
UEGNSG207	Coordinate construction, laying and testing of gas distribution pipelines	110
UEGNSG210	Supervise and monitor contract staff for work on distribution pipelines	120
UEGNSG305	Coordinate gas transmission pipeline repair and modifications	110
UEGNSG308	Identify, evaluate and control threats to transmission pipelines	40
UEGNSG310	Supervise and monitor contract work	60
UEGNSG311	Site control of third party works in the vicinity of a transmission pipeline	80
UEGNSG314	Liaise with third party and the community to maintain pipeline integrity and community safety	40
UEGNSG319	Custody transfer metering and gas quality analysis	80
UEGNSG324	Follow procedures to deal with incidents related to the abuse of drugs and alcohol	60
UEGNSG325	Coordinate the operation of relevant plant and equipment for transmission pipeline construction	80
UEGNSG326	Coordinate and monitor staff and contractors	60
UEGNSG327	Coordinate transmission pipeline construction operations	60
UEGNSG511	Operate gas infrastructure to meet nominated demand └ MSS402061 Use SCADA systems in operations	120
UEGNSG512	Control centre communication with gas industry stakeholders	110

	└ UEPOPS203B Operate and monitor communications system	
UEGNSG514	Managing and controlling field activities └ UEPOPS203B Operate and monitor communications system	110
UEGNSG515	Use control centre systems to monitor and control gas infrastructure └ MSS402061 Use SCADA systems in operations	110
UEGNSG611	Control LPG storage/processing operations	110
UEGNSG612	Supervise technical operations for liquefied petroleum gas storage and processing	120
UEGNSG806	Maintain SCADA controlled gas flow and pressure and electronic gas measurement equipment └ UEGNSG006 Use a portable gas detector to locate escape	100

Qualification Mapping Information

This qualification replaces and is equivalent to UEG30114 Certificate III in Gas Supply Industry Operations

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efd261e8>