



Australian Government

UEG50120 Diploma of Gas Supply Industry Operations

Release 3

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Modification History

Release 3. This is the third release of this qualification in the UEG Gas Industry Training Package.

- Superseded units updated.

Release 2. This is the second release of this qualification in the UEG Gas Industry Training Package.

- Removed deleted unit(s) from the qualification: UEGNSG611, UEGNSG114, UEGNSG319, UEGNSG324, UEGNSG308, UEGNSG116, UEGNSG115, UEGNSG111, UEGNSG508, UEGNSG311, UEGNSG612, UEGNSG332. Existing units added to Group E: UEGNSG121, UEGNSG202, UEGNSG301.

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

Qualification Description

This qualification provides competencies to manage gas supply industry activities, including management of projects covering the installation, diagnostics and maintenance of distribution and transmission gas pipelines 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 1600 weighting points comprising:

280 core weighting points listed below; plus

1320 elective weighting points from the elective units listed below.

Choose a minimum of 1320 **weighting points** elective units from the list below, of which between 0 and 260 **weighting points** can be taken from Group A, between 0 and 180 **weighting points** can be taken from Group B, between 330 and 670 **weighting points** can be taken from Group C, between 300 and 810 **weighting points** can be taken from Group D, and between 180 and 340 **weighting points** can be taken from Group E.

Up to 260 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 L.

Core units	Weighting Points
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UEGNSG005	Prepare to work in the gas industry	20
UEGNSG113	Manage a utilities industry WHS management system	80
UEGNSG120	Manage gas system environmental compliance	60
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

Group A: Imported and common elective units.	Weighting Points
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BSBHRM523	Coordinate the learning and development of teams and individuals	60
BSBINS501	Implement information and knowledge management systems	50
BSBLDR522	Manage people performance	70
BSBOPS502	Manage business operational plans	60
BSBOPS505	Manage organisational customer service	40
BSBPEF501	Manage personal and professional development	60
BSBSTR301	Contribute to continuous improvement	40
BSBSTR501	Establish innovative work environments	50
BSBSTR502	Facilitate continuous improvement	60

BSBTWK502	Manage team effectiveness	60
BSBWHS521	Ensure a safe workplace for a work area	60
PMAOMIR512	Establish incident response preparedness and response systems	70
PMAOPS223	Operate and monitor valve systems	40

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

UEECD0007	Apply work health and safety regulations, codes and practices in the workplace	20
UEECD0019	Fabricate, assemble and dismantle utilities industry components └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	40
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	40
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
UEGNSG140	Apply environmental policies and procedures in the utilities industry	20
UEGNSG206	Construct and lay copper and stainless steel gas distribution pipelines	60
UEGNSG219	Conduct excavations in the utilities industry	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
UEGNSG230	First on site response to gas pipeline emergencies └ CPPFES2005 Demonstrate first attack firefighting	90

	equipment	
	└ HLT AID011 Provide First Aid	
	└ UEGNSG141 Apply workplace health and safety regulations, codes and practices in the gas supply industry	
UEGNSG303	Carry out transmission pipeline construction work activities	60
UEGNSG316	Work in proximity of transmission pipeline construction plant and equipment	40
UEGNSG330	Coat metallic pipelines	80
UEGNSG331	Establish right of way access for transmission pipeline construction	60
UEGNSG342	Maintain pipeline easements	40
UEGNSG615	Fill LPG cylinders	80
UEGNSG616	Refurbish gas cylinders	80
UEGNSG702	Disconnect and reconnect small capacity gas meters	40
UEGNSG708	Pressure test residential and small commercial gas installations	40
UEGNSG709	Process meter reading information using appropriate technology	40
UEGNSG710	Read and record meter readings	40
UEGNSG714	Relight Type A gas appliances	60
UEGNSG804	Maintain single stage and single run gas flow and pressure control and measuring devices	80
UEPOPS203	Operate and monitor communications system	20
UEPOPS205	Conduct minor mechanical maintenance	30
UETTDREL14	Working safely near live electrical apparatus as a non-electrical worker	40

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

UEECD0050	Use and maintain the integrity of a portable gas detection device └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace	20
UEGNSG103	Install and commission stationary gas fuelled turbine engines └ CPCCWHS1001 Prepare to work safely in the construction industry └ HLTAID009 Provide cardiopulmonary resuscitation	60
UEGNSG135	Monitor and control gas odourisation	100
UEGNSG137	Operate and maintain gas station water bath heaters	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
UEGNSG205	Commission or decommission gas distribution pipelines	100
UEGNSG208	Construct and lay large copper gas distribution pipelines	60
UEGNSG209	Construct and lay polyethylene gas distribution mains	60
UEGNSG211	Construct and lay steel gas distribution pipelines	60
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
UEGNSG217	Launch and recover PIGs in a gas distribution pipeline	100
UEGNSG218	Carry out surveillance on gas distribution assets	90
UEGNSG222	Construct and lay nylon or PVC gas distribution mains	60
UEGNSG225	Perform routine maintenance on distribution pipeline facilities and equipment	100

UEGNSG229	Prepare simple drawings of as laid gas mains and services	40
UEGNSG304	Commission or decommission gas transmission pipelines	120
UEGNSG313	Monitor and operate flow control, pressure measuring and regulating devices for gas transmission └ UEGNSG006 Use a portable gas detector to locate escape	100
UEGNSG317	First response to a gas facility event └ CPPFES2005 Demonstrate first attack firefighting equipment └ HLTAID011 Provide First Aid └ UEGNSG141 Apply workplace health and safety regulations, codes and practices in the gas supply industry	60
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
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
UEGNSG411	Maintain cathodic protection systems	100
UEGNSG412	Install cathodic protection systems	110
UEGNSG506	Respond to gas infrastructure emergencies	80

UEGNSG509	Remotely monitor and operate gas transmission flow and pressure measuring and regulating devices └ MSS402061 Use SCADA systems in operations	90
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
UEPMNT367	Install and commission stationary gas fuelled reciprocating engines └ CPCCWHS1001 Prepare to work safely in the construction industry └ HLTAID001 Provide cardiopulmonary resuscitation	60

UEPMNT368	Repair and maintain stationary gas fuelled reciprocating engines └ CPCCWHS1001 Prepare to work safely in the construction industry └ HLTAID001 Provide cardiopulmonary resuscitation	60
UEPOPS317	Operate and monitor fixed fire protection systems	30
UEPOPS336	Manage, operate and monitor a gas turbine unit	60
UEPOPS347	Operate and monitor supervisory, control and data acquisition systems	40

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

MSL974019	Perform chemical tests and procedures	100
MSL975040	Apply routine chromatographic techniques └ MSL974019 Perform chemical tests and procedures	100
MSL975047	Apply complex instrumental techniques └ MSL974019 Perform chemical tests and procedures	80
UEECD0024	Implement and monitor energy sector WHS policies and procedures	20
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 transmission	60
UEGNSG131	Compile a gas industry technical report	20
UEGNSG210	Supervise and monitor contract staff for work on distribution pipelines	120
UEGNSG214	Coordinate and conduct gas distribution pipeline repair and modifications	110
UEGNSG215	Coordinate construction, laying and testing of gas distribution pipelines	110

UEGNSG305	Coordinate gas transmission pipeline repairs and modifications	110
UEGNSG307	Coordinate the operation of relevant plant and equipment for transmission pipeline construction	80
UEGNSG309	Coordinate transmission pipeline construction operations	60
UEGNSG310	Supervise and monitor contract work	60
UEGNSG314	Liaise with third party and the community to maintain pipeline integrity and community safety	40
UEGNSG326	Coordinate and monitor staff and contractors	60
UEGNSG501	Communicate with gas industry stakeholders to meet operational requirements	110
UEGNSG503	Monitor and control field activities	110
UEGNSG504	Monitor and control gas infrastructure using Control Centre systems	110
UEGNSG505	Operate and monitor gas infrastructure to meet nominated demand └ MSS402061 Use SCADA systems in operations	120
UEGNSG806	Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment └ UEGNSG006 Use a portable gas detector to locate escape	100

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

UEGNSG102	Prepare safe design specifications of a gas system	120
UEGNSG202	Conduct emergency site control on gas distribution assets	100
UEGNSG301	Conduct emergency site control on gas transmission assets	120
UEGNSG502	Implement emergency and critical incident response for gas infrastructure incidents	120

Qualification Mapping Information

This qualification replaces and is equivalent to UEG50118 Diploma of 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>