



**Australian Government**

# **UEG60118 Advanced Diploma of Gas Supply Industry Operations**

**Release 1**

# UEG60118 Advanced Diploma of 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 design and manage gas supply industry activities and projects and the management of staff.

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 2160 weighting points comprising:

400 core weighting points listed below; plus

1760 elective weighting points from the elective units listed below.

Choose a minimum of 1760 **weighting points** elective units from the list below, of which between 0 and 360 **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, between 180 and 340 **weighting points** can be taken from Group E, and between 440 and 540 **weighting points** can be taken from Group F.

**Up to 360 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

UEGNSG005	Prepare to work in the gas industry	20
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
UEGNSG113	Manage a utilities industry WHS management system	80
UEGNSG120	Manage gas system environmental compliance	60
UEGNSG123	Manage financial resources in a gas industry facility	120
<b>Group A: Imported and common elective units</b>		<b>Weighting Points</b>
BSBCUS501	Manage quality customer service	40
BSBFLM309	Support continuous improvement systems and processes	40
BSBINM501	Manage an information or knowledge management system	50
BSBINM601	Manage knowledge and information	80
BSBINN502	Build and sustain an innovative work environment	50
BSBINN601	Lead and manage organisational change	60
BSBLED501	Develop a workplace learning environment	60
BSBMGT502	Manage people performance	70
BSBMGT517	Manage operational plan	60
BSBMGT516	Facilitate continuous improvement	60
BSBWHS501	Ensure a safe workplace	60
BSBWHS601	Apply legislative frameworks for WHS	40

BSBWHS602	Facilitate WHS activities	50
BSBWHS603	Implement WHS risk management	50
BSBWOR501	Manage personal work priorities and professional development	60
BSBWOR502	Lead and manage team effectiveness	60
PMAOMIR512	Establish incident response preparedness and response systems	70

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

UEENEEE102A	Fabricate, assemble and dismantle utilities industry components └ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace	40
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications └ UEENEEE101A Apply Occupational Health and 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 low voltage general electrical installations └ UEENEEI112A Verify compliance and functionality of instrumentation and 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 └ HLTAID001 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
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 supply 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	80



	gas flow and pressure control and measuring devices	
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
<b>Group D: General elective units</b>		<b>Weighting Points</b>
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
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 repairs 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 company 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 └ UEPOPS203B Operate and monitor communications system	110
UEGNSG514	Managing and controlling field activities └ UEPOPS203B Operate and monitor communications	110

system

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 equipment and electronic gas measurement equipment └ UEGNSG006 Use a portable gas detector to locate escape	100

#### Group E: General elective units

#### Weighting Points

UEGNSG513	Manage emergencies and critical incidents for gas infrastructure └ HLT AID003 Provide first aid └ UEGNSG141 Apply workplace health and safety regulations, codes and practices in the gas supply industry	120
UEGNSG114	Coordinate and monitor implementation of a risk management plan for a utilities industry facility	100
UEGNSG115	Manage gas systems projects	80
UEGNSG116	Manage gas industry physical resources	80

#### Group F: General elective units

#### Weighting Points

UEGNSG117	Plan and implement the data acquisition and metering requirements of a gas system	120
UEGNSG118	Select and commission equipment to meet pressure and temperature control specifications	120
UEGNSG119	Manage workplace risk in a gas industry facility	60
UEGNSG121	Prepare safe design specifications of a gas system	120
UEGNSG122	Manage a customer service gas business unit	120

## Qualification Mapping Information

This qualification replaces and is equivalent to UEG60114 Advanced Diploma of 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>