

**UEG GAS INDUSTRY
TRAINING PACKAGE**

Version 4

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in this Industry in Western Australia to participate in the managed implementation of the National UEG Gas Industry Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the endorsed components of the Training Package.

Version 4 of the UEG Gas Industry Training Package was released by Training.Gov.Au (TGA) on the 09/12/2022

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications in accordance with the Standards for RTOs. For further information visit the Training Accreditation Council website www.tac.wa.gov.au

Nominal Hours

Nominal hours are the hours of training notionally required to achieve the outcomes of units of competency.

Nominal hours are identified for nationally endorsed qualifications. Nominal hours may vary for a qualification depending on the selection of units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

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Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the training package.

National Code	National Title	Nominal Hours
UEG20122	Certificate II in Gas Supply Industry Operations	338
UEG30122	Certificate III in Gas Supply Industry Operations	703
UEG40222	Certificate IV in Gas Supply Industry Operations	795
UEG50122	Diploma of Gas Supply Industry Operations	711

Skill Sets and Nominal Hours

The following table provides a summary of the skill sets and nominal hours in the training package.

National Code	National Title	Nominal Hours
UEGSS00007	Basic Gas Supply Industry Work Activities Skill Set	110
UEGSS00008	Construct and Lay Steel Gas Distribution Mains Skill Set	108
UEGSS00013	Basic Hydrogen Safety Skill Set	68
UEGSS00014	Inject Hydrogen into Distribution Networks Skill Set	123
UEGSS00015	Monitor Hydrogen using Control Systems Skill Set	83
UEGSS00016	Construct and Lay Plastic Gas Distribution Mains Skill Set	119
UEGSS00017	Construct, Lay and Connect a Gas Distribution Service to a Main Skill Set	89

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the training package.

National Code	National Title	Nominal Hours	Points
UEGNSG002	Apply environmental policies and procedures in the gas supply industry	20	
UEGNSG007	Assess the operational capability of gas safety equipment on a delivery vehicle	35	
UEGNSG008	Assist with the construction and laying of gas distribution mains	36	40
UEGNSG009	Assist with the construction, laying and connection of gas distribution services to mains	36	40
UEGNSG010	Conduct general excavations	54	60
UEGNSG011	Conduct isolations under the permit to work system for gas industry worksites	72	80
UEGNSG012	Construct and lay plastic gas distribution mains	65	
UEGNSG013	Construct, lay and connect a gas distribution service to a main	35	
UEGNSG014	Control industrial gas storage/processing operations	90	
UEGNSG015	Coordinate gas transmission pipeline repairs and modifications	99	110
UEGNSG016	Establish right of way access and maintain transmission pipeline easement	40	
UEGNSG017	Fill by weight industrial gas cylinders	72	80
UEGNSG018	First on site response to gas pipeline emergencies	81	90
UEGNSG019	Inspect, test and maintain gas cylinders	72	80
UEGNSG020	Load, unload, exchange and connect industrial gas cylinders	72	80
UEGNSG021	Maintain multi-stage, multi-run pressure control devices	72	80
UEGNSG022	Maintain single stage, single run pressure control devices	72	80
UEGNSG023	Manage a utilities industry health, safety and environmental (HSE) management system	70	
UEGNSG024	Monitor and control the transfer of bulk industrial gas	90	100
UEGNSG025	Monitor and operate complex flow control, measuring and regulating devices	99	110
UEGNSG026	Perform routine maintenance on distribution pipelines and facilities	90	100
UEGNSG027	Perform routine maintenance on transmission pipeline facilities and equipment	90	
UEGNSG028	Perform scheduled maintenance on gas processing or storage facilities and equipment	90	

UEGNSG029	Process, mix and blend industrial gases	80	
UEGNSG030	Store and handle bulk industrial gases	90	
UEGNSG031	Prepare to work in the gas industry	18	20
UEGNSG032	Carry out aerial surveillance of gas transmission pipelines	54	60
UEGNSG033	Carry out basic work activities in a gas industry work environment	54	60
UEGNSG034	Carry out surveillance of gas transmission pipelines	99	110
UEGNSG035	Respond to gas infrastructure emergencies	72	80
UEGNSG036	Supervise and monitor contract work	90	
UEGNSG037	Supervise technical operations for gas distribution or transmission	54	60
UEGNSG038	Supervise the operation of plant and equipment for the construction of gas transmission pipelines	54	60
UEGNSG039	Test new residential and small commercial gas installations	54	60
UEGNSG040	Use a portable detector to locate a combustible gas escape	36	40
UEGNSG041	Apply safe working practices in the gas supply industry	18	20
UEGNSG042	Pressure test residential and small commercial gas installations	36	40
UEGNSG043	Relight Type A gas appliances	54	60
UEGNSG044	Repair and maintain stationary gas fuelled turbine engines	54	60
UEGNSG045	Carry out surveillance on gas distribution assets	81	90
UEGNSG046	Coat metallic pipelines	72	80
UEGNSG047	Compile a gas industry technical report	18	20
UEGNSG048	Conduct butt fusion of large diameter polyethylene gas pipeline systems	18	20
UEGNSG049	Control excavations in the vicinity of gas transmission pipelines	54	60
UEGNSG050	Control field pipeline operations	54	60
UEGNSG051	Coordinate repair of pipeline, facilities and equipment	99	110
UEGNSG052	Establish a utilities infrastructure worksite	54	60
UEGNSG053	Install and commission stationary gas fuelled turbine engines	54	60
UEGNSG054	Install cathodic protection systems	99	110
UEGNSG055	Launch and recover PIGs in a gas distribution pipeline	90	100

UEGNSG056	Launch and recover PIGs in gas transmission pipelines	90	100
UEGNSG057	Liaise with third party and the community to maintain pipeline integrity and community safety	36	40
UEGNSG058	Locate, prove and protect utility assets	54	60
UEGNSG059	Maintain cathodic protection systems	99	100
UEGNSG060	Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment	90	100
UEGNSG061	Monitor and control gas odourisation	90	100
UEGNSG062	Monitor and report on cathodic protection systems	36	60
UEGNSG063	Operate and maintain gas station water bath heaters	54	60
UEGNSG064	Operate and monitor pipeline control systems	54	60
UEGNSG065	Install gas flow, measuring and pressure regulating devices	72	80
UEGNSG101	Undertake gas leak surveys	54	60
UEGNSG102	Prepare safe design specifications of a gas system	108	120
UEGNSG201	Conduct distribution pipeline emergency repair	90	100
UEGNSG202	Conduct emergency site control on gas distribution assets	90	100
UEGNSG203	Evaluate and extinguish gas fire	20	20
UEGNSG205	Commission or decommission gas distribution pipelines	90	100
UEGNSG206	Construct and lay copper and stainless steel gas distribution pipelines	54	60
UEGNSG208	Construct and lay large copper gas distribution pipelines	54	60
UEGNSG211	Construct and lay steel gas distribution pipelines	54	60
UEGNSG214	Coordinate and conduct gas distribution pipeline repair and modifications	99	110
UEGNSG215	Coordinate construction, laying and testing of gas distribution pipelines	99	110
UEGNSG229	Prepare simple drawings of as laid gas mains and services	36	40
UEGNSG301	Conduct emergency site control on gas transmission assets	108	120
UEGNSG302	Conduct transmission pipeline emergency repair	108	120
UEGNSG303	Carry out transmission pipeline construction work activities	54	60
UEGNSG304	Commission or decommission gas transmission pipelines	108	120
UEGNSG306	Control gas processing, storage or regasification operations in an LNG storage facility	90	

UEGNSG307	Coordinate the operation of relevant plant and equipment for transmission pipeline construction	54	80
UEGNSG309	Coordinate transmission pipeline construction operations	54	60
UEGNSG312	Inject gas into underground storage	55	
UEGNSG313	Monitor and operate flow control, pressure measuring and regulating devices for gas transmission	90	100
UEGNSG315	Withdraw gas from underground storage	55	
UEGNSG316	Work in proximity of transmission pipeline construction plant and equipment	36	40
UEGNSG317	First response to a gas facility event	54	60
UEGNSG326	Coordinate and monitor staff and contractors	54	60
UEGNSG501	Communicate with gas industry stakeholders to meet operational requirements	99	110
UEGNSG502	Implement emergency and critical incident response for gas infrastructure incidents	108	120
UEGNSG503	Monitor and control field activities	99	110
UEGNSG504	Monitor and control gas infrastructure using Control Centre systems	99	110
UEGNSG505	Operate and monitor gas infrastructure to meet nominated demand	108	120
UEGNSG509	Remotely monitor and operate gas transmission flow and pressure measuring and regulating devices	81	90
UEGNSG701	Disconnect and reconnect data logging equipment	25	
UEGNSG702	Disconnect and reconnect small capacity gas meters	36	40
UEGNSG703	Fault find and repair data logging equipment	55	
UEGNSG704	Install and commission data logging equipment	45	
UEGNSG707	Process data logging information	35	
UEGNSG709	Process meter reading information using appropriate technology	36	40
UEGNSG710	Read and record meter readings	36	40
UEGNSG715	Use data logging equipment	25	
UEGNSG901	Apply safety practices, procedures, and compliance standards for handling hydrogen gas	35	
UEGNSG902	Commission, operate and maintain electrolysers	70	
UEGNSG903	Fault find and repair hydrogen storage equipment	70	
UEGNSG904	Inject hydrogen gas into distribution networks	55	
UEGNSG905	Monitor and control hydrogen in gas distribution networks	35	

UEGNSG906	Undertake routine hydrogen storage operations	55	
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Mapping Qualifications

The following table provides an overview of the qualifications from version 4 which replace qualifications from the existing version of the UEG Gas Industry Training Package.

Current Qualification				Replacement Qualification		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
UEG20121	Certificate II in Gas Supply Industry Operations	324	E	UEG20122	Certificate II in Gas Supply Industry Operations	338
UEG30121	Certificate III in Gas Supply Industry Operations	830	E	UEG30122	Certificate III in Gas Supply Industry Operations	703
UEG40120	Certificate IV in Gas Control Operations	1152	NE	UEG40222	Certificate IV in Gas Supply Industry Operations	795
UEG40221	Certificate IV in Gas Supply Industry Operations	1155	NE	UEG40222	Certificate IV in Gas Supply Industry Operations	795
UEG50120	Diploma of Gas Supply Industry Operations	1359	NE	UEG50122	Diploma of Gas Supply Industry Operations	711

Mapping Skill Sets

The following table provides an overview of the skill sets from version 4 which replace skill sets from the existing version of the UEG Gas Industry Training Package.

Current Skill Set				Replacement Skill Set		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
UEGSS00007	Basic Gas Supply Industry Work Activities Skill Set [Release 1]	108		UEGSS00007	Basic Gas Supply Industry Work Activities Skill Set [Release 2]	110
UEGSS00010	Construct and Lay Polyethylene Gas Distribution Mains Skill Set	108	E	UEGSS00016	Construct and Lay Plastic Gas Distribution Mains Skill Set	119
UEGSS00009	Construct and Lay Nylon or PVC Gas Distribution Mains Skill Set	108	E	UEGSS00016	Construct and Lay Plastic Gas Distribution Mains Skill Set	119
UEGSS00012	Construct, Lay and Connect Gas Distribution Service to Plastic Mains Skill Set	108	E	UEGSS00017	Construct, Lay and Connect a Gas Distribution Service to a Main Skill Set	89
UEGSS00011	Construct, Lay and Connect a Gas Distribution Service to Steel Mains Skill Set	108	E	UEGSS00017	Construct, Lay and Connect a Gas Distribution Service to a Main Skill Set	89

Mapping Units of Competency

The following table provides an overview of the units of competency from version 4 which replace units of competency from the existing version of the UEG Gas Industry Training Package.

Current Unit				Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
UEGNSG133	Comply with environmental policies and procedures in the utilities industry	36	E	UEGNSG002	Apply environmental policies and procedures in the gas supply industry	20
UEGNSG140	Apply environmental policies and procedures in the utilities industry	18	E	UEGNSG002	Apply environmental policies and procedures in the gas supply industry	20
UEGNSG622	Assess the operational capability of gas safety equipment on a delivery vehicle	36	NE	UEGNSG007	Assess the operational capability of gas safety equipment on a delivery vehicle	35
UEGNSG227	Assist with the construction and laying of gas distribution mains	36	E	UEGNSG008	Assist with the construction and laying of gas distribution mains	36
UEGNSG226	Assist with the construction, laying and connection of gas distribution services to mains	36	E	UEGNSG009	Assist with the construction, laying and connection of gas distribution services to mains	36
UEGNSG219	Conduct excavations in the utilities industry	54	E	UEGNSG010	Conduct general excavations	54
UEGNSG142	Conduct isolations under the permit to work system for gas industry work sites	72	E	UEGNSG011	Conduct isolations under the permit to work system for gas industry worksites	72
UEGNSG222	Construct and lay nylon or PVC gas distribution mains	54	E	UEGNSG012	Construct and lay plastic gas distribution mains	65
UEGNSG209	Construct and lay polyethylene gas distribution mains	54	E	UEGNSG012	Construct and lay plastic gas distribution mains	65
UEGNSG213	Construct, lay and connect a gas distribution service to a steel main	54	E	UEGNSG013	Construct, lay and connect a gas distribution service to a main	35
UEGNSG212	Construct, lay and connect a gas distribution service to a plastic main	54	E	UEGNSG013	Construct, lay and connect a gas distribution service to a main	35
			New	UEGNSG014	Control industrial gas storage/processing operations	90
UEGNSG305	Coordinate gas transmission pipeline repairs and modifications	99	E	UEGNSG015	Coordinate gas transmission pipeline repairs and modifications	99
UEGNSG342	Maintain pipeline easements	36	E	UEGNSG016	Establish right of way access and maintain transmission pipeline easement	40
UEGNSG331	Establish right of way access for transmission pipeline construction	54	E	UEGNSG016	Establish right of way access and maintain transmission pipeline easement	40

UEGNSG615	Fill LPG cylinders	72	E	UEGNSG017	Fill by weight industrial gas cylinders	72
UEGNSG230	First on site response to gas pipeline emergencies	81	E	UEGNSG018	First on site response to gas pipeline emergencies	81
UEGNSG616	Refurbish gas cylinders	72	E	UEGNSG019	Inspect, test and maintain gas cylinders	72
UEGNSG614	Load, unload, exchange and connect LPG cylinders	72	E	UEGNSG020	Load, unload, exchange and connect industrial gas cylinders	72
UEGNSG805	Maintain multi-stage and multi-run gas flow and pressure measuring and regulating devices	72	E	UEGNSG021	Maintain multi-stage, multi-run pressure control devices	72
UEGNSG804	Maintain single stage and single run gas flow and pressure control and measuring devices	72	E	UEGNSG022	Maintain single stage, single run pressure control devices	72
UEGNSG113	Manage a utilities industry WHS management system	72	NE	UEGNSG023	Manage a utilities industry health, safety and environmental (HSE) management system	70
UEGNSG120	Manage gas system environmental compliance	54	NE	UEGNSG023	Manage a utilities industry health, safety and environmental (HSE) management system	70
UEGNSG617	Monitor and control the transfer of bulk LPG	90	E	UEGNSG024	Monitor and control the transfer of bulk industrial gas	90
UEGNSG811	Monitor and operate complex flow control, measuring and regulating devices for gas distribution	99	E	UEGNSG025	Monitor and operate complex flow control, measuring and regulating devices	99
UEGNSG225	Perform routine maintenance on distribution pipeline facilities and equipment	90	E	UEGNSG026	Perform routine maintenance on distribution pipelines and facilities	90
UEGNSG352	Check and report on gas station conditions	36	NE	UEGNSG027	Perform routine maintenance on transmission pipeline facilities and equipment	90
UEGNSG347	Perform routine maintenance on transmission pipeline facilities and equipment	99	E	UEGNSG027	Perform routine maintenance on transmission pipeline facilities and equipment	90
UEGNSG619	Perform scheduled maintenance on gas processing or storage facilities and equipment	99	NE	UEGNSG028	Perform scheduled maintenance on gas processing or storage facilities and equipment	90
UEGNSG618	Process liquefied petroleum gas (LPG)	90	NE	UEGNSG029	Process, mix and blend industrial gases	80
UEGNSG621	Control bulk storage of LPG	72	NE	UEGNSG030	Store and handle bulk industrial gases	90
UEGNSG005	Prepare to work in the gas industry	18	E	UEGNSG031	Prepare to work in the gas industry	18
UEGNSG353	Carry out aerial surveillance of gas transmission pipelines	54	E	UEGNSG032	Carry out aerial surveillance of gas transmission pipelines	54
UEGNSG132	Carry out basic work activities in a gas industry work environment	54	E	UEGNSG033	Carry out basic work activities in a gas industry work environment	54
UEGNSG349	Carry out surveillance of gas transmission pipelines	99	E	UEGNSG034	Carry out surveillance of gas transmission pipelines	99

UEGNSG506	Respond to gas infrastructure emergencies	72	E	UEGNSG035	Respond to gas infrastructure emergencies	72
UEGNSG310	Supervise and monitor contract work	54	E	UEGNSG036	Supervise and monitor contract work	90
UEGNSG210	Supervise and monitor contract staff for work on distribution pipelines	54	NE	UEGNSG036	Supervise and monitor contract work	90
UEGNSG110	Supervise technical operations for gas distribution or transmission	54	E	UEGNSG037	Supervise technical operations for gas distribution or transmission	54
UEGNSG348	Supervise the operation of plant and equipment for the construction of gas transmission pipelines	54	E	UEGNSG038	Supervise the operation of plant and equipment for the construction of gas transmission pipelines	54
UEGNSG706	Test new residential and small commercial gas installations	54	E	UEGNSG039	Test new residential and small commercial gas installations	54
UEGNSG006	Use a portable gas detector to locate escape	36	E	UEGNSG040	Use a portable detector to locate a combustible gas escape	36
UEGNSG141	Apply workplace health and safety regulations, codes and practices in the gas supply industry	18	E	UEGNSG041	Apply safe working practices in the gas supply industry	18
UEGNSG708	Pressure test residential and small commercial gas installations	36	E	UEGNSG042	Pressure test residential and small commercial gas installations	36
UEGNSG714	Relight Type A gas appliances	54	E	UEGNSG043	Relight Type A gas appliances	54
UEGNSG139	Repair and maintain stationary gas fuelled turbine engines	54	E	UEGNSG044	Repair and maintain stationary gas fuelled turbine engines	54
UEGNSG218	Carry out surveillance on gas distribution assets	81	E	UEGNSG045	Carry out surveillance on gas distribution assets	81
UEGNSG330	Coat metallic pipelines	72	E	UEGNSG046	Coat metallic pipelines	72
UEGNSG131	Compile a gas industry technical report	18	E	UEGNSG047	Compile a gas industry technical report	18
UEGNSG200	Conduct butt fusion of large diameter polyethylene gas pipeline systems	18	E	UEGNSG048	Conduct butt fusion of large diameter polyethylene gas pipeline systems	18
UEGNSG354	Control excavations in the vicinity of gas transmission pipelines	54	E	UEGNSG049	Control excavations in the vicinity of gas transmission pipelines	54
UEGNSG109	Control field pipeline operations	54	E	UEGNSG050	Control field pipeline operations	54
UEGNSG106	Coordinate repair of pipeline, facilities and equipment	99	E	UEGNSG051	Coordinate repair of pipeline, facilities and equipment	99
UEGNSG134	Establish a utilities infrastructure work site	54	E	UEGNSG052	Establish a utilities infrastructure worksite	54
UEGNSG138	Install and commission stationary gas fuelled turbine engines	54	E	UEGNSG053	Install and commission stationary gas fuelled turbine engines	54
UEGNSG412	Install cathodic protection systems	99	E	UEGNSG054	Install cathodic protection systems	99

UEGNSG217	Launch and recover PIGs in a gas distribution pipeline	90	E	UEGNSG055	Launch and recover PIGs in a gas distribution pipeline	90
UEGNSG346	Launch and recover PIGs in gas transmission pipelines	90	E	UEGNSG056	Launch and recover PIGs in gas transmission pipelines	90
UEGNSG314	Liaise with third party and the community to maintain pipeline integrity and community safety	36	E	UEGNSG057	Liaise with third party and the community to maintain pipeline integrity and community safety	36
UEGNSG004	Locate, prove and protect utility assets	54	E	UEGNSG058	Locate, prove and protect utility assets	54
UEGNSG411	Maintain cathodic protection systems	99	E	UEGNSG059	Maintain cathodic protection systems	99
UEGNSG806	Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment	90	E	UEGNSG060	Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment	90
UEGNSG135	Monitor and control gas odourisation	90	E	UEGNSG061	Monitor and control gas odourisation	90
UEGNSG355	Monitor and report on cathodic protection systems	36	E	UEGNSG062	Monitor and report on cathodic protection systems	36
UEGNSG137	Operate and maintain gas station water bath heaters	54	E	UEGNSG063	Operate and maintain gas station water bath heaters	54
UEGNSG108	Operate and monitor pipeline control systems	54	E	UEGNSG064	Operate and monitor pipeline control systems	54
UEGNSG807	Install gas flow, measuring and pressure regulating devices	72	E	UEGNSG065	Install gas flow, measuring and pressure regulating devices	72

Apprenticeships

The following table provides a summary of the apprenticeships that have been affected by changes in this UEG Gas Industry Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
UEG30121	Gas Supply Industry Operations	AP02370: GAS SUPPLY TECHNICIAN	830	E	UEG30122	Gas Supply Industry Operations	703

Traineeships

The following table provides a summary of the traineeships that have been affected by changes in this UEG Gas Industry Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
UEG40221	Certificate IV in Gas Supply Industry Operations	TR06830: GAS INDUSTRY OPERATIONS (LEVEL 4)	1155	NE	UEG40222	Certificate IV in Gas Supply Industry Operations	795
UEG50120	Diploma in Gas Supply Industry Operations	TR07060: GAS INDUSTRY TECHNICIAN (LEVEL 5)	1359	NE	UEG50122	Diploma in Gas Supply Industry Operations	711

Pre-apprenticeships

The following table provides a summary of the pre-apprenticeships that have been affected by changes in this UEG Gas Industry Training Package update.

Please refer to the current *list of pre-apprenticeship courses* found on the Department of Training and Workforce Development website for the official list of pre-apprenticeships in Western Australia.

Current Qualification					Replacement Qualification		
National Code	National Title	Pre-apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours

No changes occurred between versions 3 and 4.