

FIELD ENGINEERING AND TECHNOLOGY**Review of *Petrochemical Industry* unit standards**

Subfield	Domain	Id
Petrochemical Industry	Petrochemical Cathodic Protection	9578, 9579
	Petrochemical Product Transmission and Transfer	9541-9543, 9545-9548, 9550, 9551, 9554, 9555, 9569, 9572, 18415-18421, 19541, 19542

The Extractive Industries Training Organisation has completed the review of the unit standards listed above.

Date new versions published

May 2009

Planned review date

December 2014

Summary of review and consultation process

Feedback from industry and assessors indicated that unit standards related to gas transmission needed to be transferred from Petrochemical Industry and required review to suit Gas Transmission requirements.

The Petrochemical Industry Sector Advisory Group (SAG) and the Gas Industry SAG cooperated in the 2008 review of the above unit standards, with the Gas Industry SAG overseeing the review process. Some unit standards in the above domains were excluded from the review because they are not related to gas transmission.

Main changes resulting from the review

- Unit standards 9542, 9543, 9545, and 9572 have been designated expiring and will not be replaced.
- All unit standards have been transferred to the Gas Transmission Operations domain under the Gas Industry subfield and have been transferred from AMAP 0124 to AMAP 0114.
- Elements, performance criteria, range statements, and special notes have been updated and amended to reflect the needs of the gas industry.
- Levels have increased for unit standards 9555, 18415, 18418, and 18419 to better reflect the complexity of the knowledge and skills required.
- Levels have decreased for unit standards 9546 and 9551 to better reflect the complexity of the knowledge and skills required.
- Credits have increased for unit standards 9551, 9555, and 18418 to better reflect the learning, practice and assessment time required to meet the standard.
- Credits have decreased for unit standard 9546 to better reflect the learning, practice and assessment time required to meet the standard.
- Three new unit standards have been developed to meet the needs of the gas industry.

Unit standards categorised as category D expire at the end of December 2010.

Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification	Level	Nature of accreditation	Classification or Id	Level
Subfield	Petrochemical Industry	Any	Domain	Gas Transmission Operations	Same
Domain	Petrochemical Product Transmission and Transfer.	Any	Domain	Gas Transmission Operations	Same
Domain	Petrochemical Cathodic Protection	Any	Standards	9578, 9579	4

Impact on Accreditation and Moderation Action Plan (AMAP)

AMAP 0114 has been updated to reflect the changes made to the unit standards and AMAP 0124 is now expired.

Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following Extractive Industries Training Organisation qualifications are affected by the outcome of this review and are currently under review or will be reviewed this year. The unit standards that have generated the *Affected* status are listed in **bold**.

Qualification title	Standard in the qualification
National Certificate in Gas Industry (Gas Transmission) (Level 3) [Ref: 0978]	9543 , 9548, 9554, 18415 , 18420, 18421, 19541, 19542
National Certificate in Gas Industry (Gas Transmission) (Level 4) with strands in Pipeline Operation, and Instrumentation and Electrical [Ref: 0979]	9541, 9545 , 9546 , 9547, 9550, 9551 , 9555 , 9569, 9572 , 9578, 9579, 18416, 18417, 18418 , 18419

The following Extractive Industries Training Organisation qualifications are not materially affected by the changes. They will be updated when they are next reviewed.

Qualification title	Standard in the qualification
National Certificate in Gas Network Operations (Leakage Control) (Level 3) [Ref: 0400]	9550
National Certificate in Gas Industry (Gas Engineering) with strands in Gas Network Operations, Gas Network Planning and Development, and Gas Utilisation [Ref: 0635]	9579
National Certificate in Gas Network Construction (Pipelaying) (Level 3) [Ref: 1022]	9550
National Certificate in Gas Network Operations (Level 3) with optional strands in Operations and Maintenance; and Field Auditing [Ref: 1328]	9550

Review Categories and changes to classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same Id and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same Id and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new Id
D	Standard will expire and not be replaced

Subfield Petrochemical Industry
Gas Industry

Id	Domain	Title	Level	Credit	Review Category
9541	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Operate an acoustical leak detector in a petrochemical environment Use acoustical leak detection equipment on a gas transmission pipeline system	4	2	B
9542	Petrochemical Product Transmission and Transfer	Inspect and maintain aerial spans in a petrochemical environment	4	4	D
9543	Petrochemical Product Transmission and Transfer	Install and maintain pipeline safety signs and aerial markers in a petrochemical environment	3	2	D
9545	Petrochemical Product Transmission and Transfer	Construct and maintain cross drains in a petrochemical environment	4	3	D
9546	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Carry out aerial inspection of the pipeline system in a petrochemical environment Carry out aerial inspection of a gas transmission pipeline system	4 3	4 2	B
9547	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Lay culverts in drains on pipeline easements in a petrochemical environment Demonstrate knowledge of protecting under depth gas transmission pipelines	4	4	B

Id	Domain	Title	Level	Credit	Review Category
9548	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Locate pipelines in a petrochemical environment Locate pipelines in a gas transmission environment	3	3	B
9550	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Perform basic pipe wrapping in a petrochemical environment Perform basic pipe wrapping on a steel pipeline	4	3	B
9551	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Assist with intelligent pigging activities in a petrochemical environment Carry out gas transmission pipeline pigging	4 3	4 8	B
9554	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Inspect pipeline easements in a petrochemical environment Inspect gas transmission pipeline easements and pipeline systems	3	3	B
9555	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Control erosion and erosion planting on pipelines in a petrochemical environment Identify methods of prevention and control of, and monitor and control, erosion on a gas transmission pipeline system	3 4	2 8	B
9569	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Operate odorant systems in a petrochemical environment Operate odorant systems in a gas transmission environment	3	4	B

Id	Domain	Title	Level	Credit	Review Category
9572	Petrochemical Product Transmission and Transfer	Carry out a seminar in a petrochemical environment	4	4	D
9578	Petrochemical Cathodic Protection Gas Transmission Operations	Carry out a Direct Current Voltage Gradient (DCVG) survey in a petrochemical environment Carry out a Direct Current Voltage Gradient (DCVG) survey in the gas transmission industry	4	3	B
9579	Petrochemical Cathodic Protection Gas Transmission Operations	Carry out cathodic protection system trouble shooting in a petrochemical environment Carry out cathodic protection system trouble shooting survey in the gas transmission industry	4	4	B
18415	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Demonstrate knowledge of gas filtration equipment in a petrochemical environment Demonstrate knowledge of gas filtration, and gas filtration and ancillary equipment, in the gas transmission industry	2 3	3	B
18416	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Operate and maintain gas fired water bath heater equipment in a petrochemical environment Operate and maintain gas-fired water bath heater equipment on a gas transmission pipeline system	3	4	B
18417	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Perform routine maintenance on a metering system in a petrochemical environment Perform maintenance on a metering system on a gas transmission pipeline system	4	6	B

Id	Domain	Title	Level	Credit	Review Category
18418	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Operate and maintain main line valves on a product pipeline in a petrochemical environment Operate and maintain main line valves on a gas transmission pipeline system	3 4	3 6	B
18419	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Operate and maintain gas filtration equipment in a petrochemical environment Operate and maintain gas filtration equipment on a gas transmission pipeline system	3 4	3	B
18420	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Assist in carrying out emergency pipeline repairs in a petrochemical environment Participate in emergency pipeline repairs on a gas transmission pipeline system	3	3	B
18421	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Demonstrate knowledge of compression equipment in a petrochemical environment Demonstrate knowledge of the application of compression equipment in the gas transmission industry	4	6	B
19541	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Demonstrate knowledge of gas pipeline system components in a petrochemical environment Demonstrate knowledge of components on a gas transmission pipeline system	2	3	B
19542	Petrochemical Product Transmission and Transfer Gas Transmission Operations	Demonstrate knowledge of gas transmission pipeline operation in a petrochemical environment Demonstrate knowledge of gas transmission pipeline networks and pipelines	2	4	B

Id	Domain	Title	Level	Credit	Review Category
25314	Gas Transmission Operations	Control excavations near a gas transmission pipeline system	4	4	New
25315	Gas Transmission Operations	Isolate and tag plant and equipment, and remove danger tags, on a gas transmission pipeline system	3	5	New
25316	Gas Marketing, Business and Administration	Complete documentation, and log and report information, for a gas industry organisation	2	3	New