

Year 1 Learning Plan (Plumbing, Gasfitting & Drainlaying, Level 4 v3)

Online and block course assessments

| Unit no | Title | ✓ |
|------------------------------------|--|--------------------------|
| Online theory sessions 1-3* | | |
| 21883 | Demonstrate knowledge of working in gas contaminated environment in plumbing, gasfitting, or drainlaying | <input type="checkbox"/> |
| 30596 | Demonstrate knowledge of asbestos and safety measures for asbestos-related work | <input type="checkbox"/> |
| 21881 | Describe ethical and legal considerations for plumbing, gasfitting, or drainlaying services | <input type="checkbox"/> |
| 30536 | Demonstrate knowledge of the regulatory framework for plumbing, gasfitting, and drainlaying | <input type="checkbox"/> |
| 30532 | Demonstrate knowledge of excavating and trenching for plumbing, gasfitting, or drainlaying | <input type="checkbox"/> |

Block Course 1

| | | |
|-------|--|--------------------------|
| 25413 | Draw and form simple patterns for plumbing and gasfitting sheet metal components | <input type="checkbox"/> |
|-------|--|--------------------------|

Online theory sessions 4-6*

| | | |
|-------|--|--------------------------|
| 30616 | Describe the properties of water and applications of less frequently used materials | <input type="checkbox"/> |
| 30605 | Demonstrate knowledge of the installing, securing, and maintaining of water supply pipework in buildings | <input type="checkbox"/> |
| 30550 | Demonstrate knowledge of installation, commissioning, and maintenance of hot water supply systems | <input type="checkbox"/> |
| 30553 | Demonstrate knowledge of the installation and maintenance of sanitary appliances and fixtures | <input type="checkbox"/> |

Block Course 2

| | | |
|-------|--|--------------------------|
| 30529 | Make as-built drawings and record variations to job specifications for drainlaying jobs | <input type="checkbox"/> |
| 30533 | Position, excavate, and backfill excavations and trenches for plumbing, gasfitting, or drainlaying | <input type="checkbox"/> |
| 30555 | Install basic sanitary plumbing systems | <input type="checkbox"/> |

PD and PGD: Progress to Year 2 →

On-job assessments

| Unit no | Title | ✓ |
|----------------------|---|--------------------------|
| Quarter one | | |
| 6400 | Manage first aid in an emergency situation | <input type="checkbox"/> |
| 6401 | Provide first aid | <input type="checkbox"/> |
| 6402 | Provide basic life support | <input type="checkbox"/> |
| Quarter two | | |
| 17599 | Plan a confined space entry | <input type="checkbox"/> |
| 18426 | Demonstrate knowledge of hazards associated with confined spaces | <input type="checkbox"/> |
| Quarter three | | |
| 3490 | Complete an incident report | <input type="checkbox"/> |
| Quarter four | | |
| 30557 | Select, describe, use, and maintain tools for plumbing and drainlaying projects | <input type="checkbox"/> |

* Needs to be completed to be allocated to a block course

** To be completed in the current year

Year 2 Learning Plan (Plumbing, Gasfitting & Drainlaying, Level 4 v3)

Online and block course assessments

| Unit no | Title | ✓ |
|------------------------------------|---|--------------------------|
| Online theory sessions 7-8* | | |
| 30534 | Demonstrate knowledge of wet and dry inspection chambers | <input type="checkbox"/> |
| 30612 | Demonstrate knowledge of trade waste interceptor traps | <input type="checkbox"/> |
| 30614 | Demonstrate knowledge of the installation and maintenance of water mains and water supply systems | <input type="checkbox"/> |

| Block Course 3 | | |
|-----------------------|---|--------------------------|
| 30535 | Install inspection chambers | <input type="checkbox"/> |
| 30613 | Install food grease interceptor traps | <input type="checkbox"/> |
| 30615 | Install and maintain water mains and water supply systems | <input type="checkbox"/> |

| Online theory sessions 9-10* | | |
|-------------------------------------|---|--------------------------|
| 30530 | Demonstrate knowledge of the installation and maintenance of foulwater drains | <input type="checkbox"/> |
| 30600 | Demonstrate knowledge of pumps used in drainlaying systems | <input type="checkbox"/> |
| 30604 | Demonstrate knowledge of pumps used for water supply and disposal systems in plumbing | <input type="checkbox"/> |

| Block Course 4 | | |
|-----------------------|---------------------------------------|--------------------------|
| 30531 | Install and maintain foulwater drains | <input type="checkbox"/> |
| 30601 | Install pumps for drainlaying systems | <input type="checkbox"/> |

| Block Course 5 | | |
|-----------------------|--|--------------------------|
| 30606 | Determine water supply requirements in buildings, and install, secure, and maintain pipework | <input type="checkbox"/> |
| 30551 | Position, install, commission, and maintain low pressure hot water supply systems | <input type="checkbox"/> |

| Online theory session 12* | | |
|----------------------------------|--|--------------------------|
| 30577 | Demonstrate knowledge of the installation and maintenance of stormwater handling systems | <input type="checkbox"/> |

| Block Course 6 | | |
|-----------------------|--|--------------------------|
| 30579 | Install and complete wingwall structures for stormwater handling systems | <input type="checkbox"/> |
| 30578 | Install and maintain stormwater handling systems | <input type="checkbox"/> |

D: Complete

PD: Progress to Year 3 →

PGD: Complete Gas Block Course 1 →

On-job assessments

| Unit no | Title | ✓ |
|----------------------|---|--------------------------|
| Quarter one | | |
| 15757 | Use, install and disestablish temporary proprietary height safety systems when working at height | <input type="checkbox"/> |
| 23229 | Use safety harness system when working at height | <input type="checkbox"/> |
| Quarter two | | |
| 4249 | Describe care and timeliness as an employee | <input type="checkbox"/> |
| Quarter three | | |
| 30537 | Work in plumbing, gasfitting, or drainlaying with consideration of other trades and services | <input type="checkbox"/> |
| Quarter four | | |
| 30264 | Describe duties, rights, representation and the regulator in terms of New Zealand health and safety legislation | <input type="checkbox"/> |

Gas block course assessments (Gas trainees only)

| Gas block course 1** | | |
|-----------------------------|--|--------------------------|
| 21900 | Demonstrate knowledge of safety requirements in gasfitting | <input type="checkbox"/> |
| 30528 | Draw as-built drawings and record variations to job specifications for gasfitting jobs | <input type="checkbox"/> |
| 30717 | Demonstrate knowledge of trade science for gasfitting | <input type="checkbox"/> |

PGD: Progress to Year 3 →

* Needs to be completed to be allocated to a block course

** To be completed in the current year

Year 3 Learning Plan (Plumbing, Gasfitting & Drainlaying, Level 4 v3)

Online and block course assessments

| Unit no | Title | ✓ |
|----------------------------------|---|--------------------------|
| Online theory session 13* | | |
| 30538 | Demonstrate knowledge of installation, commissioning, and maintenance of on-site wastewater | <input type="checkbox"/> |

| Block Course 7 | | |
|-----------------------|--|--------------------------|
| 30539 | Install, commission, and maintain on-site wastewater treatment systems | <input type="checkbox"/> |

| Online theory sessions 14-15* | | |
|--------------------------------------|---|--------------------------|
| 30609 | Demonstrate knowledge of alternative water supply and water storage for sanitary plumbing | <input type="checkbox"/> |
| 30542 | Demonstrate knowledge of foul water systems | <input type="checkbox"/> |

| Block Course 8 | | |
|-----------------------|---|--------------------------|
| 30543 | Install, secure and maintain foul water systems in accordance with NZBC G13 AS1 | <input type="checkbox"/> |
| 30544 | Install, secure and maintain foul water systems in accordance with NZBC G13 AS3 | <input type="checkbox"/> |

| Block Course 9 | | |
|-----------------------|---|--------------------------|
| 30554 | Select, position, install, connect, commission, and maintain sanitary appliances and fixtures | <input type="checkbox"/> |

PD: Progress to Year 4 →

PGD: Complete Gas block course 2 →

Gas block course assessments (Gas trainees only)

| Gas block course 2** | | |
|-----------------------------|--|--------------------------|
| 30709 | Demonstrate knowledge of electrical and electronics work for gas appliances | <input type="checkbox"/> |
| 30715 | Demonstrate knowledge of the installation, commissioning, and maintenance of consumer gas pipework | <input type="checkbox"/> |
| 30716 | Determine supply requirements and install, commission, and maintain consumer gas pipework | <input type="checkbox"/> |
| 30718 | Demonstrate knowledge of concepts and the application of less frequently used materials for gasfitting | <input type="checkbox"/> |
| 30727 | Demonstrate knowledge and use of gasfitting tools and testing equipment | <input type="checkbox"/> |

PGD: Progress to Year 4 →

On-job assessments

| Unit no | Title | ✓ |
|----------------------|--|--------------------------|
| Quarter one | | |
| 30526 | Interpret job documentation, draw as-built drawings and record variations to plumbing, gasfitting, or drainlaying jobs | <input type="checkbox"/> |
| Quarter two | | |
| 30657 | Isolate low-voltage electrical subcircuits and perform basic checks and tests to confirm isolation | <input type="checkbox"/> |
| Quarter three | | |
| 30692 | Perform basic calculations used in a given trade situation | <input type="checkbox"/> |
| Quarter four | | |
| Plumbing exam | | |
| 28349 | Demonstrate knowledge of theory for registration of Drainlayers | <input type="checkbox"/> |

* Needs to be completed to be allocated to a block course

** To be completed in the current year

Year 4 Learning Plan (Plumbing, Gasfitting & Drainlaying, Level 4 v3)

Online and block course assessments

| Unit no | Title | ✓ |
|----------------------------------|---|--------------------------|
| Online theory session 16* | | |
| 30607 | Demonstrate knowledge of the installation and maintenance of solid fuel space heaters and flues | <input type="checkbox"/> |

| Block Course 10 | | |
|------------------------|--|--------------------------|
| 30608 | Position, install, and maintain solid fuel space heaters and flues | <input type="checkbox"/> |

| Online theory sessions 17-18* | | |
|--------------------------------------|---|--------------------------|
| 30022 | Perform roof calculations, interpret roofing plans and specifications, and develop a materials ordering list | <input type="checkbox"/> |
| 30548 | Demonstrate knowledge of making and installing flashings for profiled metal roofing and cladding | <input type="checkbox"/> |
| 30545 | Demonstrate knowledge of profiled metal and translucent roofing | <input type="checkbox"/> |
| 30547 | Demonstrate knowledge of relevant profiled metal cladding installation methods, trade practice, and licensing | <input type="checkbox"/> |

| Block Course 11 | | |
|------------------------|--|--------------------------|
| 30546 | Install and maintain profiled metal roofing and cladding | <input type="checkbox"/> |

| Online theory sessions 19-20* | | |
|--------------------------------------|---|--------------------------|
| 30598 | Demonstrate knowledge of the installation, testing, and maintenance of water supply backflow prevention devices | <input type="checkbox"/> |
| 30602 | Demonstrate knowledge of gas boosted solar water heating systems and hydronic heating | <input type="checkbox"/> |
| 30610 | Demonstrate knowledge of the installation, testing, commissioning, and maintenance of solar water heating systems | <input type="checkbox"/> |

| Block Course 12 | | |
|------------------------|---|--------------------------|
| 30599 | Determine the position of water supply backflow prevention devices, and install, test, and maintain devices | <input type="checkbox"/> |
| 30611 | Carry out installation, testing, commissioning, and maintenance of solar water heating systems | <input type="checkbox"/> |

| Online theory sessions 21-23* | | |
|--------------------------------------|--|--------------------------|
| 30597 | Demonstrate knowledge of the installation and maintenance of ducting systems for warm air heating | <input type="checkbox"/> |
| 30603 | Demonstrate knowledge of plumbing aspects of domestic fire sprinkler systems | <input type="checkbox"/> |
| 30549 | Demonstrate knowledge of the installation and maintenance of rainwater handling and harvesting systems | <input type="checkbox"/> |

PD: Complete

PGD: Complete Gas block course 3 and 4 →

* Needs to be completed to be allocated to a block course

** To be completed in the current year

On-job assessments

| Unit no | Title | ✓ |
|--------------------------|--|--------------------------|
| Quarter one | | |
| 30658 | Demonstrate knowledge of fundamental electrical safety in the workplace | <input type="checkbox"/> |
| Quarter two | | |
| 30527 | Make as-built drawings and record variations to job specifications for plumbing jobs | <input type="checkbox"/> |
| Quarter three | | |
| 30552 | Position, install, commission, and maintain mains pressure hot water supply systems | <input type="checkbox"/> |
| Quarter four | | |
| Registration Exam | | |
| 28347 | Demonstrate knowledge of theory for registration of Plumbers | <input type="checkbox"/> |

Gas block course assessments (Gas trainees only)**

| Gas Block Course 3** | | |
|-----------------------------|---|--------------------------|
| 30705 | Demonstrate knowledge of the identification, testing, and maintenance of control and safety devices in gas appliances | <input type="checkbox"/> |
| 30713 | Demonstrate knowledge of the installation and maintenance of gas control and safety devices | <input type="checkbox"/> |
| 30714 | Install and maintain gas control and safety devices | <input type="checkbox"/> |
| 30719 | Demonstrate knowledge of the key features of high consumption gas appliances and equipment | <input type="checkbox"/> |

| Gas Block Course 4** | | |
|-----------------------------|--|--------------------------|
| 30706 | Test and maintain gas appliance control and safety devices | <input type="checkbox"/> |
| 30710 | Demonstrate knowledge of flues for gas appliances | <input type="checkbox"/> |
| 30711 | Demonstrate knowledge of rules relating to flueless gas appliances | <input type="checkbox"/> |
| 30712 | Demonstrate knowledge of requirements for ventilation to provide combustion air | <input type="checkbox"/> |
| 30724 | Demonstrate knowledge of installing and maintaining gas metering equipment, and interpretation of gas meter data | <input type="checkbox"/> |

PGD: Progress to Year 5 →

Year 5 Learning Plan (Plumbing, Gasfitting & Drainlaying, Level 4 v3)

Gas block course assessments (Gas trainees only)**

| Unit no | Title | ✓ |
|-----------------------------|--|--------------------------|
| Gas Block Course 5** | | |
| 30707 | Demonstrate knowledge of the installation and commissioning of electrically controlled gas appliances and equipment | <input type="checkbox"/> |
| 30708 | Install and commission electrically controlled gas appliances and equipment | <input type="checkbox"/> |
| 30725 | Demonstrate knowledge of the installation, commissioning, and maintenance of mechanical gas appliances and equipment | <input type="checkbox"/> |
| 30726 | Install, commission, and maintain mechanical gas appliances and equipment | <input type="checkbox"/> |

| Gas Block Course 6** | | |
|-----------------------------|--|--------------------------|
| 30720 | Demonstrate knowledge of the gasfitting of LPG cylinder systems for gas installations in buildings | <input type="checkbox"/> |
| 30721 | Install LPG cylinder systems for gas installations in buildings | <input type="checkbox"/> |
| 30722 | Demonstrate knowledge of the gasfitting of LPG cylinder systems for gas installations in mobile applications | <input type="checkbox"/> |
| 30723 | Install LPG cylinder systems for gas installations in mobile applications | <input type="checkbox"/> |

PGD: Complete

On-job assessments

| Unit no | Title | ✓ |
|--------------------------|--|--------------------------|
| Quarter one | | |
| 30575 | Demonstrate knowledge of maintaining structural integrity and weather tightness of building penetrations | <input type="checkbox"/> |
| Quarter two | | |
| 30576 | Maintain structural integrity and weather tightness of building penetrations | <input type="checkbox"/> |
| Quarter three | | |
| Registration exam | | |
| 28348 | Demonstrate knowledge of theory for registration of Gasfitting | <input type="checkbox"/> |

* Needs to be completed to be allocated to a block course

** To be completed in the current year