

9196 Certifying Gasfitter examination guide

This guide contains information about the 9196 certifying gasfitter examination. See our [website](#) for all exam information and forms.

About the exam

- This is a Board exam which is managed by Aspeq. For any changes to your exam please contact [Aspeq](#) directly.
- The exam is electronic with all questions presented electronically. 75% of the questions will be electronically answered, and 25% will need to be answered on a paper exam sheet.
- You are expected to answer examination questions in accordance with the Acts, Regulations and Codes in force at 1 January of the calendar year of the examination.
- The pass mark is 60%.

Exam purpose

An exam pass is one of the requirements for registration as a certified gasfitter under the [Plumbers, Gasfitters, and Drainlayers Act 2006](#) (“the Act”).

Sitting the exam

The Boards certifying exams are completed on a computer at a testing centre. See [Aspeq's](#) venue locations.

The exam is open book

You will be provided electronic resources that you can refer to during your exam. These documents are provided in PDF format only. Candidates can apply for a hardcopy of the resources, by applying for [special assessment conditions](#).

The following resources will be provided to candidates when sitting the exam:

1. AS/NZS 5601.1 Gas installations – General installations
2. AS/NZS 5601.2 LP Gas installations in caravans and boats for non-propulsive purposes
3. E2: External Moisture
4. B2: Durability
5. NZS 5255 Safety verification of existing gas installations

By providing these documents, we aim to assess a candidates' ability to use and apply codes and standards, as well as their knowledge of the regulatory environment related to plumbing work.

While no specific weighting is given to assessing this ability and knowledge within the exam, candidates should be aware that questions may be asked to cover this aspect outside the outlined topics referred to on the weightings table on **page 4**.

What is in the exam

Your exam will be generated randomly. It will have different questions than others sitting the exam.

There will be a range of question types for the computer-based questions including:

- multiple choice/single choice (one correct answer from a range of possible answers)
- inline (select a word/phase to complete a statement)
- numerical
- multi-select (select the number of correct answer options).

The paper-based questions will require the candidate to draw, design or fill in answers on a diagram, much like the current exam.

This list covers what type of questions may be in your exam

Responsibilities and considerations relating to managing health and safety and relating to the oversight and/or supervision of persons who do, or assist in doing, restricted work.

- Considerations and responsibilities under Health and safety in employment Act and Regulations.
- Health and safety systems.
- Preparation of safety plan.
- Incident and accident reporting.
- Oversight and supervision of persons carrying out restricted work.
- Considerations and responsibilities related to excavations.
- Notifiable work, scope, and related requirements.

Responsibilities and considerations regarding building services integration and site management.

- Considerations and management of the effect on structures and sites following the design and installation of gasfitting systems, including the coordination with other services.
- Integration of gasfitting services within the building and site environment.
- Information required regarding the maintenance of the integrity of structures and sites.
- Positioning and protection of services.
- Weather proofing systems - Roof flashings and wall penetrations.

Gasfitting systems.

- Flue and appliance design and clearance requirements
- Gas supply pipework, service lines, meters, and regulator systems
- Gas-pipe sizing
- Testing, purging, commissioning, and decommissioning installations and/or its components
- Gas-fired appliances and equipment installations
- Gas appliance approval procedures
- Domestic space heating, non-domestic space heating and air heaters

- Air for combustion and dilution of combustion products
- Water heating systems with gas as an energy source
- Control and testing devices
- Flow controls
- Safety devices: design and operating features, including but not limited to:
 - a. flame failure devices
 - b. over-temperature protection
 - c. air contamination
 - d. air/gas supply failure
 - e. over-pressure protection
 - f. burning back
 - g. safety interlocks
 - h. oxygen depletion sensors
- Meters: low-pressure and high-pressure metering; meter readings; mass flow metering; meter installations
- Regulators: types, their design and operating features, including but not limited to:
 - a. simple constant-pressure regulators
 - b. compensated regulators
 - c. high to low pressure regulators
 - d. self-operated regulators
 - e. relay-operated regulators
 - f. pilot operated regulators
 - g. Regulator monitoring and maintenance.
- Flue gas analysis
- Considerations and requirements appropriate for different types of gases
- Maintenance
- Installation and maintenance of LPG appliances in boats and caravans.

Legislation relevant to the exam

The following legislation and compliance documents contain some requirements relevant to the exam:

- [Plumbers, Gasfitters, and Drainlayers Act 2006](#)
- [Plumbers, Gasfitters, and Drainlayers Regulations 2010](#)
- [Gas Act 1992](#)
- [Gas \(Safety & Measurement\) Regulations 2010](#)
- [Hazardous Substances and New Organisms Act 1996](#)
- [Health and Safety at Work Act 2015](#)
- [Health and Safety in Employment Regulations 1995](#)
- [The Building Act 2004](#)
- [New Zealand Building Code Handbook](#)

The legislation can be downloaded free [here](#).

The Building Code and Compliance Documents:

- [New Zealand Building Code Handbook](#)
- B2: Durability
- E2: External Moisture
- G4: Ventilation
- G10: Piped Services
- G11: Gas as an energy source

The Building Code and Compliance Documents can be downloaded free [here](#).

Codes of practice relevant to the exam

The following codes of practice are relevant to the exam:

- Code of Practice for Safety in Excavation and Shafts for Foundations. This is available [here](#)
- Guide for Safety with Underground Services. This is available [here](#).
- LPG Codes of Practice. This is available [here](#).

Standards relevant to the exam

The following standards and Building Code clauses contain some requirements relevant to the exam:

- AS/NZS 5601.1:2013 Gas installations – General installations
- AS/NZS 5601.2:2013 LP Gas installations in caravans and boats for non-propulsive purposes
- NZS 5266:2014 Safety of gas appliances
- NZS 5255:2014 Safety verification of existing gas installations
- AS/NZS 1596:2014 The storage and handling of LP Gas.
- 3604:2011 Timber Framed Buildings – Holes and checks in studs, plates, and joists.

Note: Some of these standards are available through the Plumbers, Gasfitters and Drainlayers Board [trade login](#). These standards are only available if you hold a current authorisation or practising licence. If you do not have access to certain standards, they can be purchased from [Standards NZ](#).

Weighting of the exam

Topics	Marks
Health and safety	10
Supervision	6
Responsibilities and considerations regarding building services integration and site management	10
Gasfitting systems	64
Trade science and calculations	10
Total	100