Gasfitting Evidence Guide

**Assessment Evidence Guide for applicants to prepare for Recommendation for Registration**

# Evidence

## What you’ll need evidence of:

### For each of the following you need to supply verified evidence and/or show understanding.

### Trade Calculations and trade sciences

* Working in a gas contaminated environment.
* Asbestos and asbestos related work requirements.
* Understanding of working with sheet metal equipment and pattern creation for Plumbing and Gasfitting.
* Understanding of atmospheric pressure, vaporization, combustion, heat transfer and efficiency.
* Evidence of working with less frequently used materials.
* Gasfitting tools and testing equipment.

### Gas Installations

* On-site evidence of a flue installation
* Understanding of different types of flues, limitations of flue designs, flue materials, installation requirements of different flues.
* Installation of a flueless appliance.
* Understanding of how flueless gas appliances operated, room size requirements and where they can and cannot be installed.
* How much combustion air is needed for combustion including an example of a commercial kitchen running multiple appliances.
* Safety devices found on high consumption gas appliances and why some safety devices are not suitable for use on high consumption appliances.
* Installation of gas pipework and show understanding of purging techniques, testing procedures and leak tracing methods.
* Maintenance of mechanical gas and electronic gas appliances and equipment including an understanding of commissions procedures for and maintenance of.
* Maintenance of gas metering equipment including installation and limitations of meter types.
* Supply requirements for consumer pipework.

### Fuel Gases

* Types, uses, composition, safe storage and handling.
* Installation of an LPG Cylinder station and the equipment related including location restrictions.
* LPG Installation in a mobile application.

### Space and Water Heating

* Gas boosted solar and hydronic heating systems.
* Ducted gas central heating systems and an understanding of warm air ducted heating systems.

### Drawings and Specifications

* Interpretation of plans and job specifications, variations, drawing as-built plans and development of patterns.

### Electrical

* Understanding of electrical and electronics work that applies to gasfitting within the limitations under the Electricity Act 1992.

### Compliance Requirements

* Relevant documentation relating to gasfitting to meet compliance requirements.
* Gas control and safety devices
* The regulatory framework for Gasfitting
* Knowledge of the applicable sections of the NZ Building code

### Integrity of Structures

* Work on weather tightness and methods.
* Maintaining structural integrity, including an understanding in related sections of NZS 3604
* Maintaining weather tightness in relation to penetrations of the building envelope.

### Health and Safety

* Workplace health and safety requirements
* The registration classes and the limitations/responsibilities