Plumbing 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.
* Sheet-metal work verified by Supervisor.
* Evidence of working with tools and equipment for plumbing and Drainlaying projects.

### Plumbing Materials

* Understanding the properties of water and application of less frequently used materials.
* Application of materials used in sanitary plumbing, including material protection and jointing methods.

### Sanitary Plumbing

* Show an understanding of as built drawings & job variations. Draw job specifications
* Boosted solar and hydronic heating systems.
* Rainwater handling or harvesting.
* Domestic fire and sprinkler systems.
* Installation of pipework verified by your supervisor including an understanding of flushing procedures, testing methods and pipework maintenance/fault finding.
* Ducted heating systems.
* Installation and maintenance of sanitary appliances and fixtures.
* Installation, commissioning and maintenance of hot water systems, valving. requirements, seismic and safe tray requirements.
* Different solar water heating systems, installations and maintenance requirements.
* Installation of foul water systems, venting, gradients, common faults/testing, building code requirements and acceptable solutions.
* Alternative water sources and supplies.

### Foul Water Systems

* Pump types, installations and maintenance.
* Installation, testing and maintenance of water supply backflow prevention devices.

### Compliance Requirements

* Understanding of the regulatory framework for Plumbing.
* Understanding of the registration classes and limitations/responsibilities of each.
* Knowledge of the applicable sections of the NZ Building code

### Effect of Installation of Sanitary Plumbing Systems

* Weather tightness methods in relation to penetrations of the building envelope.
* Maintaining structural integrity including an understanding of the related sections of NZS 3604.
* Positioning, installation and maintenance of solid fuel space heaters and flues.
* Specifications, installation, materials flashings and maintenance of roofs.

### Health and Safety

* Understanding of workplace health and safety requirements
  + Personal and public safety
  + Site safety
  + Electrical safety
  + And environmental consideration