



Plumbers,
Gasfitters and
Drainlayers Board

Examination Guide

9198

Certifying Drainlayer

Registration

Examination

Published July 2011

Introduction

This document provides examination information to those who are intending to sit the 9198 Certifying Drainlayer registration examination leading to eligibility for registration as a Certifying Drainlayer by the Plumbers, Gasfitters and Drainlayers Board ("the Board").

Registration Examination 9198

1. Candidates 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.
2. The purpose of the examination is eligibility for registration under the Plumbers, Gasfitters, and Drainlayers Act 2006 ("the Act").
3. The pass mark is 60%.
4. The examination is administered and managed by the Board or its agent(s).

Examination Information

Please refer to www.pgdb.co.nz for all examination information and forms.

Registration as a Certifying Drainlayer

For information and an application form on how to become a Certifying Drainlayer, please refer to the Board's website.

Certifying Registration Examinations

9198 Certifying Drainlayer

Introduction

The examination scope has been specified by a notice published in Gazette. This notice can be accessed through the Board's website www.pgdb.co.nz under the "About us" – "Legislation" section.

Written examination

1. Trade calculations used in the design and installation of drainage systems; including but not limited to the following.
 - Estimation, measurement and calculation using measurement systems.
 - Application of formulae including transpositions.
 - Obtaining and calculating scale measurements from plans and drawings.
 - Numerical information interpreted from graphs and tables.
2. Trade science relevant to the design and installation of drainage systems.
 - Physics laws.
 - Corrosion protection.
 - Hydraulic principles.
 - Expansion and contraction
 - Density.
 - Water quality.
3. Design, drawing and verification of drainage systems.
 - Preparing plans and specifications.
 - Foul water systems.
 - Stormwater systems.
 - Trade waste systems
 - On-site effluent disposal systems.
 - On-site waste water treatment systems.
4. Specification of materials for the design and installation of drainage systems.
 - Pipes and fittings.
 - Jointing methods.
 - Water quality including black, grey, recycled.
 - Trade waste systems.
 - On-site effluent disposal systems.
 - On-site waste water treatment systems.

5. Access to, interpretation and application of relevant documentation relating to drainlaying to meet compliance and environmental requirements.
 - Acts and regulations.
 - Standards.
 - Codes.
 - Manufacturers' instructions.
 - Plans and specifications.
 - As built drawings.
 - Quantities.

Legislation

Legislation that contains some requirements relevant to this paper.

These legislation documents can be downloaded free from www.legislation.govt.nz.

- Plumbers, Gasfitters, and Drainlayers Act 2006
- The Building Act 2004.
- Health Act 1956 Part 2A (Drinking Water) amended 2007.
- Health and Safety in Employment Act 1992
- Resource Management Act 1991.
- New Zealand Building Code and Handbook (available from www.dbh.govt.nz).

Standards (www.standards.co.nz)

Standards that contain some requirements relevant to this paper.

- AS/NZS 3500 Part 0:2003 Glossary of terms.
- AS/NZS 3500 Part 2:2003 Sanitary plumbing and drainage.
- AS/NZS 3500 Part 3:2003 Stormwater drainage.

Codes of Practice

- Approved Code of Practice for Safety in Excavation and Shafts for Foundations (available from www.osh.dol.govt.nz).

Weighting

	Topics	Marks
1.	Trade calculations used in the design and installation of drainage systems.	10
2.	Trade science relevant to the design and installation of drainage systems.	10
3.	Design, drawing and verification of foul water and stormwater systems for drainlaying.	35
4.	Specification of materials for the design and installation of drainage systems.	10
5.	Access to, interpretation and application of relevant documentation relating to drainlaying to meet compliance and environmental requirements.	35
	Total marks	100
	This weighting schedule is a recommendation and guide for tutors, examiners, moderators and candidates. It gives an approximate allocation of the emphasis given to topics in the examination.	