

## Geothermal bore manager application

Email: [hhu.geothermal@worksafe.govt.nz](mailto:hhu.geothermal@worksafe.govt.nz)

Post: WorkSafe New Zealand, High Hazards Unit, HHU P&G Team, PO Box 342, New Plymouth 4340

Applicant to supply a passport-sized photo of him/herself

### 1. Applicant details

Name:

Home address:

Email:

Mobile phone:

Date of birth: Date: DD / MM / YEAR

Gender:  Male  Female

Position/job title:

Business address:

Work email:

Work phone:

Work mobile phone:

### 2. Self-certification

The answers provided in this section will be assessed against Appendix 1, Geothermal Bore Manager Skills and Experience Matrix to determine whether an A-Grade or B-Grade Bore Manager's Certificate should be issued.

From the Geothermal Energy Regulations 1961:

- **A-Grade Bore Manager** means a person with at least three years' practical experience in geothermal work, including drilling, and with a sound knowledge of pressure control. An A-Grade Manager shall be appointed if the bore depth exceeds 150 m.
- **B-Grade Bore Manager** means a person with at least three years' practical experience in geothermal work, including drilling. A B-Grade Manager can manage a bore up to a depth of 150 m.

What do you wish to be appointed as?

- A-Grade Geothermal Bore Manager
- B-Grade Geothermal Bore Manager

An A-Grade or B-Grade Bore Manager would be expected to have at least three years' practical experience in geothermal work.

How many years' practical experience do you have in geothermal work?

You must be able to answer Yes to this question in order to be eligible to become a Bore Manager.

Does your practical geothermal experience including drilling?  Yes  No

Bore Managers are expected to act in a toolpusher's role. They are expected to 'take personal supervision of the work'. Practical experience is required to ensure that persons supervising rig operations have hands-on experience.

When did you last act in the role of driller or toolpusher on a geothermal drilling rig?

Date: DD / MM / YEAR

Drilling rig:

Bore name:

Bore number:

Bore depth: (metres)

### OFFICE USE ONLY

Application number:

Certification number:

I hereby certify that the abovementioned person be appointed and provided a certificate of appointment as an:

- A-Grade
- B-Grade Geothermal Bore Manager

Signature:  
(Chief Geothermal Inspector)

Date: DD / MM / YEAR

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A current industry accepted well control certificate would be accepted as evidence of this knowledge.

Do you have a sound knowledge of pressure methods?  Yes  No

Please include a copy of your certificate. It would be expected that the certificate would be less than two years old.

When did you last successfully complete a well control course? Date: DD / MM / YEAR

Have you attached a copy of your certificate?  Yes  No

This act applies at all places of work and a manager would be expected to have a working knowledge of this act.

Do you have a working knowledge of the Health and Safety at Work Act 2015?  Yes  No

These Regulations are the governing regulations for geothermal well operations.

Do you have a working knowledge of the Geothermal Energy Regulations 1961 Amendment Number 6?  Yes  No

This code of practice is taken to apply for wells exceeding a depth of 150 m. It is therefore a primary reference document for an A-Grade Bore Manager.

Do you have a working knowledge of Code of Practice Deep Geothermal Wells, NZS 2403:2015?  Yes  No

These guidelines are taken to apply to wells not exceeding a depth of 150 m. It is therefore a primary reference document for a B-Grade Bore Manager.

Do you have a working knowledge of Health and Safety Guidelines for Shallow Geothermal Wells, Department of Labour, July 1996?  Yes  No

## 3. Additional applicant details

Please provide a copy of your CV **and** any specific additional relevant details.

Relevant geothermal experience:

## Applicant declaration

I,

hereby apply to be appointed as a Geothermal Bore Manager and confirm that the information provided is a full and accurate record. I agree to abide by health and safety legislation, industry guidelines and codes of practice.

Signature of applicant:

Date: DD / MM / YEAR

## 4. Referee

This section is to be completed by the referee, an industry-based colleague, who can act as a referee and confirm the information supplied is correct.

Name:

Home address:

Email:

Mobile phone:

Position/job title:

Work email:

Work phone:

Work mobile phone:

## Referee declaration

I confirm that:

- I have known the applicant for: YEARS / MONTHS
- I have reviewed the completed form and confirm to the best of my knowledge the information supplied is a full and accurate record.

Signature of applicant:

Date: DD / MM / YEAR

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## APPENDIX 1:

### Geothermal Bore Manager's skills and experience matrix

REQUIREMENT	REQUIRED FOR A-GRADE BORE MANAGER	REQUIRED FOR B-GRADE BORE MANAGER	NOTES
Working knowledge of the Health and Safety at Work Act 2015	Yes	Yes	This act applies at all places of work and a manager would be expected to have a working knowledge of this act.
Working knowledge of the Geothermal Energy Regulations 1961 Amendment Number 6	Yes	Yes	These Regulations are the governing regulations for geothermal well operations.
Working knowledge of Health and Safety Guidelines for Shallow Geothermal Wells, Department of Labour, July 1996	Not mandatory	Yes	<p>These guidelines are taken to apply to wells not exceeding a depth of 150 m. It is therefore a primary reference document for a B-Grade Bore Manager.</p> <p>This is not a mandatory requirement for an A-Grade Bore Manager, however an A-Grade Bore Manager would be expected to be familiar with these guidelines if they intend to manage a shallow geothermal well under these guidelines.</p>
Working knowledge of Code of Practice Deep Geothermal Wells, NZS 2403:2015	Yes	No	This code of practice is taken to apply for wells exceeding a depth of 150 m. They are therefore a primary reference document for an A-Grade Bore Manager.
Three years' practical experience in geothermal work, including drilling	Yes	Yes	This is a basic requirement for both the A-Grade and B-Grade Bore Managers.
A sound knowledge of pressure control methods	Yes	No	It is recognised that most well control certification courses would focus on petroleum drilling, however a current well control certificate together with practical experience of geothermal drilling work will be accepted as evidence of a sound knowledge of pressure control methods.
Knowledge and experience of petroleum drilling methods	Not mandatory	Not mandatory	<p>There are obviously many similarities between petroleum and geothermal drilling. Knowledge and experience of petroleum drilling would be desirable but it is not taken to be mandatory.</p> <p>As some aspects of well control will differ between a petroleum and a geothermal well, a Geothermal Bore Manager's Certificate will not be issued to somebody who has petroleum drilling experience but who lacks appropriate geothermal drilling experience.</p>