



OVERVIEW OF THE ROLE

As a Plumber you will maintain, install and operate building services equipment and systems. This includes all internal/external reticulated pipe work.

Plumbers work in either summer or winter jobs; shorter winters may also be an option. Plumbers work at all three Antarctic stations as well as at Macquarie Island.

WHAT YOU WILL DO ON THE JOB

As a Plumber you will be required to undertake some or all of the following:

- Maintain, install and operate the following building services equipment/systems:
 - Reticulated heating hot water and associated pumping systems;
 - Reticulated potable water and associated pumping systems;
 - Reticulated fire services water and associated pumping systems;
 - Air handling plant, including ventilation and exhaust systems;
 - Sewerage treatment plant and associated pumping equipment;
 - High temperature incineration plant;
 - Kitchen equipment and all LPG installations, including field huts;
 - Water production plant, including melt bell or reverse osmosis management; and
 - Medical gases and sterilization equipment.
- Prepare and submit monthly and annual reports.
- Operate a computerised maintenance management system.
- Maintain the plumbing stock inventory, and coordinate the reorder of spare parts, materials and equipment.
- Assist science programs where necessary.
- Plumbers in winter jobs may be required to carry a pager and participate in an on-call roster to respond to out-of-hours pager alarms generated by critical plant and equipment.

As a proactive and positive member of the community you will:

- Maintain a personal and practical commitment to AAD policies and standard operating procedures (including work, health and safety and environmental policies). Training and guidance in regard to all responsibilities relevant to your position will be provided.
- Perform duties to support the community life of the expedition, such as general kitchen duties, garbage clearance, general cleaning duties, and assisting other expedition members with official programs.
- Work in areas outside of your primary role, for example, providing assistance to other areas or science projects, or participating in general labouring tasks such as clearing snow or handling cargo.

The [General Information for Applicants](#) document contains critical information about living and working in Antarctica, and must be read in conjunction with this job description prior to applying.

Plumber - Technical Criteria

These technical criteria are used to assess your application for Plumber.

1. Essential

To apply for this role you must have the skills and licences listed below:

1. **Qualifications/licences** (provide copies in your application):
 - A suitable trade certificate, technical certificate, apprenticeship or recognised equivalent such as Plumber.
 - A White Card (issued after May 2009).
 - A current, unrestricted "C" class (manual) Australian driver's licence.
2. Industrial/commercial mechanical services and/or sanitary experience (usually at least three years post-trade).

2. Highly Desirable

These are not essential to the role, but they will make you more competitive against other applicants. To increase the likelihood of your application being successful, you will need to have at least some of these.

Recent hands-on experience (within the last 5 years):

- packaged oil fired boiler systems;
- a wide range of pumps;
- air handling plant;
- pressure and temperature controls (heating hot water and ventilation systems);
- LPG systems and commercial kitchen equipment;
- maintenance of fire sprinkler systems;
- sewage treatment plant (municipal or small community);
- medical gases;
- corrosion treatment;
- heating hot water systems;
- panel radiators/heat exchangers;
- mechanical services commissioning - water and air;
- potable water production plant (reverse osmosis);
- metal fabrication/electric welding/sheet metal work;
- Backflow prevention;
- HDPE welding;
- tempering/thermostatic mixing valves;
- operation of a computerised maintenance management system; or
- technical reporting/writing reports.



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3. Additional

Should your application be successful, it is useful to have some understanding of any additional licences you have.

- Confined space
- Remove non-friable asbestos
- Supervise asbestos removal
- Dogging
- Rigging
- Scaffolding
- Forklift
- Elevated work platform
- Operation of a crane
- Telescopic materials handler
- Dozer
- Loader
- Excavator
- Skid steer loader (Bobcat)
- Skidder



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Personal Qualities Criteria

The Australian Antarctic Division assesses individual personal qualities in terms of the attributes required to successfully live and work in an isolated Antarctic or subantarctic community. Successful candidates will meet the personal qualities criteria detailed below. Personal qualities are assessed at a later stage in the assessment process.

1. Demonstrate a strong work ethic

Evidenced by a proven history of efficient, effective, responsive and productive work performance.

Applicants for supervisory positions will be expected to demonstrate supervisory capabilities, including a good knowledge of workplace diversity, workplace relations, work, health and safety and environmental management practices and principles.

2. Demonstrate that they can make a positive contribution to community and team

Evidenced by:

- demonstrating the capacity to cope with physical and emotional isolation and the resilience to overcome hardship;
- demonstrating the capacity to work productively, contribute to the success of small isolated work groups and the overall community including recognising the effect their behaviour has on others;
- demonstrating a capacity to address and resolve issues of conflict;
- demonstrating the capacity to exercise sound judgement;
- demonstrating flexibility, tolerance and acceptance of changing circumstances;
- demonstrating qualities of robustness, motivation and confidence whilst displaying sensitivity, situational awareness and support and respect to fellow workers;
- demonstrating good social skills and taking pride in their appearance and maintaining socially accepted standards of hygiene;
- responsible use of alcohol; and
- not exhibiting behaviour that could endanger others' safety or be seen as being abusive, threatening or offensive to others.

3. Demonstrate that they can respond to authority and are compliant with the law, legislative requirements and AAD policies and procedures

Evidenced by:

- a history of complying with authority and supporting lawful instructions;
- demonstrating a commitment to and compliance with appropriate environmental management policies and practices;
- demonstrating a knowledge and history of compliance with work health and safety practices and principles; and
- recognition of harassment and discrimination issues and demonstrated compliance with associated legislative requirements.

4. Demonstrate a commitment to AAP specific requirements

Evidenced by:

- demonstrating commitment to supporting the Australian Antarctic Science Program;
- demonstrating willingness to participate in "common duties" and activities in support of the community generally; and

- demonstrating commitment to fully participate in all required training and associated activities.

Other Criteria

If you progress through the technical criteria and personal qualities stage of the process, the next stage will require you to undergo medical, psychological and character screening. Meeting and maintaining suitability in relation to these requirements is mandatory.

Medical

The AAD's Polar Medicine Unit will determine your medical fitness for duty in Antarctica or the subantarctic following tests conducted on our behalf by a nominated medical practitioner. If required, this may include comprehensive drug screening for compliance to undertake Safety Sensitive Aviation Activities (SSAA).

Candidates considered for a role at Macquarie Island may be required to complete a fitness assessment.

Psychological

You may be required to undertake an adaptability assessment.

Character

You will be subject to a police records check.

Training

You must undertake all training requirements as outlined by the AAD.

You will be required to attain the following qualifications/licences prior to commencement with the AAD:

1. A current statement of attainment in the following units of first aid:
 - Provide First Aid (HLTAID003) valid for at least 12 months beyond the date of commencement; and
 - Provide CPR (HLTAID001).



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