



Australian Government

Department of Sustainability, Environment, Water, Population and Communities
Australian Antarctic Division

PLUMBER - MECHANICAL SERVICES/SANITARY

Overview of the Role

As a plumber you will be responsible for the installation, operation and maintenance of building mechanical services plant and equipment including all internal/external reticulated pipe work.

What will you actually do on the job?

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.
- Medical gases and sterilization equipment.
- Prepare monthly reports.
- Assist in science programs when necessary.

You are required to maintain a personal and practical commitment to AAD Work Health and Safety (WHS) and Environmental Policies.

As well as these specific job roles you will also be required, in common with all other expeditioners, to perform duties rostered by the station leader 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.

You can also expect to work in areas outside of your primary trade, for example providing assistance to other trade areas, or participating in general labouring tasks such as clearing snow or handling cargo.

During a winter position you will 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.

Required Skills, Knowledge and Attributes

You will demonstrate installation and/or maintenance capability in the following:

- packaged oil fired boiler systems
- panel radiators/heat exchangers
- centrifugal 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 (not septic tank systems)
- medical gases
- heating hot water corrosion treatment
- potable water production plant (reverse osmosis)
- Metal fabrication/electric welding/sheet metal work
- Maintenance of stock inventories, including stocktaking and initiating re-orders of parts, materials and tools
- Report writing
- Mechanical services commissioning - water and air
- Operate a personal computer
- Other skills of use in an isolated Antarctic community

Qualifications & Licences

- You will have a suitable trade or technical certificate in the building trade group. Additional courses and/or training in the industry are an advantage.
- You will have successfully completed a Nationally recognised construction industry safety induction unit and hold a current White Card (or nationally recognised equivalent)
- You will hold a current "C" class (manual) Australian driver's license.
- You will have a current statement of attainment in the following units of first aid - Apply First Aid (HLTFA301B) and Perform CPR (HLTCPR201A).

Please note training on oil fired boilers, LPG, water production, waste treatment, plant operation, water and air balancing is provided to long-term expeditioners.

Personal Qualities Requirements

As a member of a small community there are also personal attribute requirements which the Australian Antarctic Division assesses very closely. You will need to meet the personal qualities criteria listed below.

To be successful you will:

- demonstrate a strong work ethic.
- demonstrate that you can make a positive contribution to the community and team.
- demonstrate that you respond to authority and are compliant with the law, legislative requirements and AAD policies and procedures.
- demonstrate a commitment to Australian Antarctic program specific requirements.

Medical, Psychological and Security Screening

If you are assessed as meeting the above job related and personal quality requirements, you will be required to undergo medical, psychological and security screening. Meeting and maintaining suitability in relation to these requirements is mandatory.

- The AAD's Polar Medicine Unit will determine your medical fitness for duty in Antarctica 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).
- Psychological assessments are conducted on our behalf by a nominated professional provider.
- Security checks vary depending on the role required. This may be limited to a police records check.