



Australian Government

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

STATION MECHANICAL SUPERVISOR

Overview of the Role

As the Station Mechanical Supervisor (formerly known as the Plant Inspector) you will manage the station mechanical section's operations. You will be responsible for the operation and mechanical maintenance of power houses, the maintenance of mobile and stationary mechanical plant, the management of fuel farms and other fuel and lube storage, the management of the mechanical workshop, the management of mechanical spares and consumable stocks, and the training and endorsement of expeditioners to operate vehicles and mechanical plant. In addition to management and supervisory roles, you will perform mechanical work and operate equipment as part of the mechanical team.

A suitable person will be selected from Expedition Mechanic and/or Station Mechanical Supervisor candidates to work as the Senior Expedition Mechanic for Macquarie Island.

What will you actually do on the job?

- Manage the mechanical section on station (note: the Station Mechanical Supervisor is a working manager and is required to perform the duties of an expedition mechanic).
- Operationally maintain (mechanical side) station power generation facilities. Liaise with relevant trade groups regarding power house maintenance requirements.
- Manage and maintain mobile and stationary mechanical plant and equipment (portable generators/pumps, 4x4 and specialized over snow vehicles, earth moving machinery etc).
- Operate plant and equipment as required (loaders, forklifts, tractors, cranes etc).
- Provide mechanical engineering services to various user groups.
- Provide operator training/endorsement on vehicles and plant as required.
- Manage fuel farms and the storage of lubricants, gas, spare parts and materials.
- Manage mechanical spares and consumable stock.
- Support station operations as required.
- Support field operations as required.
- Assist in science programs when necessary.

You are required to maintain a personal and practical commitment to the AAD's OHS and Environmental Policies. The safety and environmental roles and responsibilities relevant to your position will be communicated to you by your supervisor.

As well as these specific job roles you will also be required to, in common with all other expeditioners, perform duties rostered by the Station Leader to support the community life of the expedition, such as general kitchen duties, garbage clearance, water duties, and assisting other expedition members with official programs.

Required Skills, Knowledge and Attributes

- Managing plant and equipment and workshop facilities.
- Supervising mechanical trades-people.
- Diesel engine maintenance, repair, diagnose and overhaul (Caterpillar and Cummins electronic and non electronic).
- Petrol engine maintenance, repair and overhaul.
- Maintenance and repair of heavy plant, including tracked, wheeled and stationary equipment (Cat loaders, tractors and excavators, Grove cranes, Komatsu crushers, electric forklifts etc).
- Maintenance and repair of medium vehicles and plant, including oversnow vehicles, trucks, forklifts etc.
- Maintenance and repair of light vehicles, including Toyota 4x4 vehicles, Honda all terrain vehicles etc.
- Maintenance and repair of small plant, including pumps, generator sets, heaters, ice drills, outboard motors etc.
- Installation, commissioning, operation, servicing and maintenance of single and three phase power generation equipment.
- Hydraulic systems.
- Automotive electrics.
- Fitting and machining.
- Welding and metal fabrication.
- Workshop practices including an understanding of current occupational health and safety policies.
- Maintenance of stock inventories including stocktaking, reordering spares and consumables etc.
- Written and oral communication skills appropriate to the duties of the position.
- Other skills of use in an isolated Antarctic community.

Qualifications and Licenses

- You will have a suitable trade qualification (motor mechanic, diesel mechanic, plant mechanic, fitter & turner etc).
- 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)

Personal Qualities Requirements

As the 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 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 the requirements of these is mandatory.

- The AAD's Polar Medicine Unit will decide on your medical fitness for duty in Antarctica following tests conducted on our behalf by a nominated medical practitioner.
- Psychological assessments are conducted on our behalf by the Directorate of Psychology, Department of Defence.
- Security checks vary depending on the role required. This may be limited to a police records check.