

AVIONICS TECHNICIAN 1

GENERAL

This is the full working level for the repair and maintenance of the sophisticated communications and navigation equipment in the aircraft operated by the Manitoba Government Air Division. The employee is fully trained and experienced in avionics to perform this work with a high degree of efficiency and expertness, in accordance with the regulations set out by the Ministry of Transport.

TYPICAL DUTIES

Repairs VHF communications equipment, VHF navigation equipment including VHF Omni Range, Instrument Landing Systems, Area navigation systems, Automatic Direction Finders, Slaved Compass systems and all audio systems in the aircraft operated by the Manitoba Government Air Division.

Maintains the necessary records on each unit for M.O.T. purposes as well as warranty purposes.

Repairs and maintains aircraft electrical equipment such as aircraft lighting, voltage regulators, ITT systems, propeller synchronization, and keeps necessary records related thereto.

Ensures that the avionics shops are operated in accordance with M.O.T. regulations; acts as the Chief Avionics Inspector as specified in the M.O.T. approved Inspections Procedures Manual of the Air Division; responsible for any amendments or revisions to the Manual.

Performs other duties as assigned.

QUALIFICATIONS

Knowledge, Abilities and Skills

Thorough and complete knowledge of aircraft communications equipment and navigation equipment.

Thorough and complete knowledge of the performance of the various avionics systems in actual flight; i.e. must be as knowledgeable as a pilot in this regard.

Thorough and complete knowledge of all avionics ground stations; i.e. VOR, ADF, Radar, etc., at airports and other locations.

Thorough knowledge of M.T.O. rules and regulations.

Thorough knowledge of Manitoba Government Air Division policies and procedures.

Thorough knowledge of manufacturer's specifications and manuals related to the equipment and parts.

Thorough knowledge in the use of test equipment.

Education, Training and Experience

At least two years (Associate Degree in Avionics) of a four-year Bachelor of Science Degree in Avionics.

At least three years' experience in the repair and maintenance of avionics systems at a Ministry of Transport approved, or Federal Aviation Administration (U.S.) approved service centre.

AVIONICS TECHNICIAN 2

GENERAL

An employee at this level is fully responsible for the planning and supervision of maintenance and repair of avionics systems in aircrafts. The incumbent performs the functions of an Avionics Technician 1 and in addition, functions as a specialist in the repair of Distance Measuring Equipment, Transponders, Weather Radar and Flight Control systems.

TYPICAL DUTIES

Maintains and repairs the more sophisticated avionics systems on Manitoba Government Air Division aircraft: Distance Measuring Equipment, Transponders, Weather Radar and Flight Control Systems, and maintains the necessary records related thereto.

Responsible for all administrative functions related to the Avionics Branch: keeping current manufacturers' technical manuals, taking action on manufacturers' service bulletins, controls inventory of parts and equipment, correspondence with suppliers, customs, other government departments.

Evaluates present conditions and procedures and makes reports as to future needs of the avionics shops and aircraft.

Plans and organizes the avionics work for the entire division.

Plans and supervises the work of other staff in the Avionics Branch.

Acts as the Supervisor of Avionics as specified in the Inspections Procedures Manual for the Air Division approved by the Ministry of Transport.

Performs other duties as assigned.

QUALIFICATIONS

Knowledge, Abilities and Skills

Thorough and complete knowledge of aircraft communications equipment and navigation equipment.

Thorough and complete knowledge of the performance of the various avionics systems in actual flight; i.e. must be as knowledgeable as a pilot in this regard.

Thorough and complete knowledge of all avionics ground stations; i.e. VOR, ADF, Radar, etc., at airports and other locations.

Thorough knowledge of M.O.T. rules and regulations.

Thorough knowledge of the Manitoba Government and Manitoba Government Air Division policies and procedures.

Thorough knowledge of manufacturers' specifications and manuals related to the equipment and parts.

Thorough knowledge in the use of test equipment.

Proven administrative and supervisory ability.

Education, Training and Experience

At least two years (Associate Degree in Avionics) of a four-year Bachelor of Science Degree in Avionics.

Specialized training in the maintenance and repair of the more sophisticated avionics systems outlined herein.

At least three years' experience in the repair and maintenance of avionics systems at a Ministry of Transport approved, or Federal Aviation Administration (U.S.) approved service centre.