

Aircraft Health Management Engineer (AHME)

Level	1	Location	Brisbane
Department	Technical Operations	Division	Engineering Operations
Group	Operations	Direct Reports	Nil
Reports to	Aircraft Health Team Leader	Manager once removed (MOV)	Manager Technical Operations
Created	December 2012	Updated	June 2017

Goals

My Role:	To carry out day-to-day monitoring of fleet health (including real-time defect tracking, transmission data and fault history analysis) using applicable systems diagnostic tools and take appropriate and proactive measures to enhance aircraft reliability and availability.
My Department:	The Engineering Department is responsible for the activities performed by Virgin Australia and its contractors relating to the continuing airworthiness management functions, reliability and configuration of the aircraft fleet, to satisfy Regulatory and Company requirements in a cost effective manner.

Virgin Australia

1. To be Australia's airline of choice.
2. To be Australia's best customer led organisation
3. To do for corporate travellers what we did for leisure travellers in 2000

Expertise

	Must have	Great to have
Knowledge	<p>Comprehensive knowledge, in respect to aircraft operated by the Airline of:</p> <ul style="list-style-type: none"> (a) The regulations and standards applicable to aircraft maintenance (b) Maintenance requirements related to operational approvals (c) Regular maintenance requirements included in the instructions for continuing airworthiness for the aircraft. (d) The aircraft's certification basis (e) The aircraft's systems (including the propulsion system), for the aircraft/engine type that is equivalent to Level 1 as set out in Appendix III of the Part 66 Manual of Standards (f) Aviation maintenance methods (g) Aircraft health monitoring and prognostic maintenance methods 	<p>Type training course/s of the aircraft types operated by the airline.</p> <p>Knowledge of Reliability Analysis functions.</p>

Qualifications	(a) hold, or have held, an aircraft engineer license in category B1, B2 or C; or (b) hold, or have held, a license that is equivalent to a license in category B1, B2 or C; or (c) have a qualification in aircraft maintenance at least at Certificate IV level; or (d) have a qualification in aviation maintenance management at least at diploma level; or (e) have an engineering qualification at least at diploma level in any of the following disciplines: (i) aeronautical; (ii) avionics; (iii) mechanical; (iv) electrical; (v) electronics.	Academic qualifications in an engineering, project management or business discipline
Skills	Advanced Computer and Data Analysis Skills	Predictive Maintenance Analysis skills and systems knowledge for FHDB, AHEAD, AHM, AIRMAN.
Experience	5 years relevant work experience with at least 2 years in a similar or suitable position.	Previous experience in aircraft maintenance operational control Experience in aircraft systems/engine diagnostics

Key Accountabilities

Accountability	Major activities	Performance Indicators
Continued Airworthiness	Continuous Health Monitoring of VAA Fleet as stated in Engineering Business Procedures Control fleet re-current defects by providing solutions to increase operational reliability and availability.	Monitored through VHEALTH condition report: This report will include VHEALTH items raised per fleet <ul style="list-style-type: none"> ▪ VHEALTH "Confirm" ▪ VHEALTH "Disrupt" ▪ VHEALTH "Pending" ▪ VHEALTH "Not Confirm" Monitored through Recurrent Items as reported in TRAX Troubleshooting and positive resolution of system/component defect recurrence
Predictive and preventive maintenance	Prioritise predictive and preventive maintenance activities on a daily basis using the following data provided by the following systems: <ul style="list-style-type: none"> ▪ AHEAD-PRO (Embraer) ▪ AIRMAN WEB (Airbus) ▪ AHM (Boeing) ▪ Fault History Data Base (FHDB) ▪ ACMS reports ▪ Digital Flight Data Recorder (DFDR) / QAR ▪ Fault Conditioning Monitoring (FCM) 	VHEALTH items raised per fleet <ul style="list-style-type: none"> ▪ VHEALTH "Confirm" ▪ VHEALTH "Disrupt" ▪ VHEALTH "Pending" ▪ VHEALTH "Not Confirm"

	<ul style="list-style-type: none"> B737 Duct Split Records <p>V-Health call ups of preventive or troubleshooting maintenance tasks to address impending system/component failures</p> <p>Co-ordination of V-Health activities with other stakeholders such as Planning, EOC teams, Maintenance Watch, Fleet Engineers and MRO's</p>	
Fleet Performance	<p>Project-based initiatives to enhance aircraft fleet performance for systems that exceed Pireps/Component Alert Levels for 3 consecutive months.</p> <p>Monitor Weekly Engineering Delay Reports for Head starts, delays and cancellations to identify and address delay trends.</p>	Initiatives identified to address poor performing systems/ components
Technical Support	<p>Provide AOG and technical advice to the Maintenance Watch and the Defect Management Group on an as-required basis</p> <p>Provide support to Maintenance Providers including on-site support where warranted</p>	<p>Instances of providing AOG recovery and technical expertise support as required</p> <p>Visits to ports for on-site support</p>
Cost Control	Provide cost effective solutions	V-Health confirmed rates for components removed thru V-health tasks
Process Development & Improvement.	Identify and initiate process improvements and change.	Deliver process improvement initiatives via Initiative Briefs.

Competencies are relevant to every Virgin Australia team member. Please refer to the Virgin Australia Behavioural Guide for further detail specific to your position.

- Continuous Improvement and Strategic Focus
- Critical Thinking and Analysis
- Organisational and Social Commitment
- People and Leadership
- Personal Awareness and Effectiveness
- Service Delivery
- Vivacity

Key Interactions

Internal:	Engineering Operations Staff Maintenance Watch Manager Technical Operations Fleet Engineering Maintenance Planning
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	Supply Flight Operations Quality Assurance & Safety
External:	Maintenance Providers Aircraft, engine and component vendors and suppliers Logistics companies Design contractors Regulatory authorities Other airline's Maintenance Operations

Major Challenges

- Ensuring the highest possible Fleet Technical Dispatch Reliability through predictive/preventive maintenance measures.
- Maximising the technical performance of aircraft fleets in the face of competing corporate priorities and initiatives.
- Providing AOG recovery support and technical expertise for aircraft defects
- Where practicable for the role, ensure engineering costs are kept within predicted budgets.

Our Expectations

You are expected:

1. To be the ultimate Virgin Australia ambassador through living, breathing and promoting the Virgin Australia Values – Caring, Excellence, Individuality, Resourcefulness, Innovation, Enthusiasm and Integrity.
2. To demonstrate our Leadership Behaviours; Act with integrity, Be decisive, Act quickly, Listen to Guests and team members and Take responsibility.
3. To comply with and actively support all position, department and company policy and procedures
4. To be a team player – supporting a one in all in approach and a first to know, best to deal with
5. To demonstrate our Safety First philosophy – First to find, first to fix! Ensuring that you keep our workplace fair and safe – free of all forms of discrimination and harassment and free from injury and incident.
6. To engage the very best of your personality and enthusiasm and create memorable, positive and fun experiences for all.

Sign Off

I have read and understand the requirements of this position. I agree to consult with my Manager or Leader should I not understand the key accountabilities or expectations of me. I will carry out the position to the best of my ability and understand I must meet required performance standards and targets. I accept the responsibilities of the position as outlined above.

I understand the position description for my role is constantly evolving, based on emerging priorities and shifts in organisational and department needs, and therefore will be updated from time to time.

Team member name:	Signature:	Date:
Manager/Leader's Name:	Signature:	Date: