

Aerospace engineering and support



Tailored engineering services to meet
your operational requirements

Marshall provides military and commercial customers with a range of world-leading applied engineering services and product from its bases across Canada and beyond. The company has a proud history spanning more than 100 years during which it has delivered a wide range of ground-breaking engineering solutions across air, sea and land.

It is this experience, coupled with the ability to be flexible, agile and responsive, that sets Marshall apart from its competitors and enables us to tailor engineering and manufacturing services to meet a broad range of operational requirements.

Marshall Canada currently operates from locations in Abbotsford and Ottawa and will be opening a new, state-of-the-art manufacturing facility in New Brunswick later this year to support its international growth plans.

Breadth of capabilities

Integrated support services framework

- Fleet availability based contracting
- Supply chain services, and manufacturing support
- Programme management support
- Technical support and engineering services

Capability enhancement

- Full range of capabilities to enable design, integration, test and certification for capability insertion and upgrade

Capability sustainment

- Integrated total through life support capability using cutting edge technology including full logistic support analysis, on-aircraft fatigue monitoring, redicative maintenance and obsolescence management



Enable.

Enhance.

Protect.



Engineering Services



Cost benefit analysis

- Examines costs to allow decisions to be made based on life cycle costing techniques, such as discount rates and net present values
- Allows informed decisions to be made that will improve aircraft availability at minimum cost
- Evaluates whether to replace unreliable equipment, when to replace equipment and whether an upgrade is the most cost-effective solution



24-hour Technical Support hotline

- Expansive knowledge and existing approved data built up for more than 50 years of supporting many C-130 operators around the world
- Ability to react and support the full scale of technical issues that may arise in providing Support Solutions to ensure aircraft availability meets operational demands



In country support

- Onsite technical liaison engineer
- Tailored management of complete publication sets publications are configured dash controlled and updated with standalones supplements to cover amendments
- Coordination with Lockheed Martin for the supplements to be incorporated into manuals when required



Repair solutions

- Repairs Centre of Excellence that will develop non-standard structural repairs outside the structural repair manual repair manual
- Solutions are designed substantiated and certified for aircraft structure, parts, components and equipment
- Fully approved Lockheed Martin Hercules service centre at Cambridge facility



Continued airworthiness management

- Independently ensures that the interpretation and incorporation of the airworthiness regulatory framework is adhere to and maintained
- Type certification airworthiness standard is maintained throughout aircraft operational life
- Establishes a bespoke information system for incident corrective and preventative actions



Reliability centred maintenance

- Analytical methodology will provide recommendations to enable the continuous review and update of aircraft master maintenance schedules and associated publications
- Regulatory compliance ensures aircraft maintenance programmes are optimised



Spares optimization

- Analysis of stock levels and location of spares to identify any shortfalls that will have a negative effect on aircraft availability
- Cost optimise solutions are calculated that provide the greatest increase in availability at minimum cost



Obsolescence management

- Obsolescence management programmes plan monitors and analyses risks
- Supportability solutions will ensure equipment downtime due to obsolescence is minimised and aircraft availability is maximised



Fleet management

- Collection analysis and input of aircraft usage data
- Forecast of aircraft maintenance requirements
- Compiling of trend analysis reports to make reliability improvements
- Established supply chain network
- Monitoring of aircraft availability to support operational and exercise planning
- Scheduled maintenance plans and reactive unscheduled maintenance plans in place



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