

MAJOR AIRCRAFT OEM

Commercial Aviation Manufacturing & Industrial Engineering

ALTEN ADDED VALUE

- Synthesize and clearly communicate the process state, deficiencies & opportunities to the organization
- Design the improved future state of the production process
- Provide a cost/benefit assessment for proposals
- Plan the tasks needed to achieve and execute the improvement

KEY TOOLS & TECHNOLOGIES

Lean Manufacturing, 5S, Gemba walk, Value Stream Map, Layout design, Line balancing, SLB, AVL2, Capacity analysis, CVAT model, SAP PAM, Skywise, Airina, BOM analysis, Data analytics, Cost assessment & ROI

KEY DATA

Team Size: 9 Engineers
Time: Since January 2024
A220 Final Assembly Line

ALTEN TECHNOLOGY

A220 LEO—LEAN EFFICIENCY OPTIMIZATION PROJECT

OVERVIEW

This project focused on optimizing the TAKT time within the Airbus A220 family, supporting the Mobile, AL production line to become an excellent facility for Airbus. Our engineering team focused on analyzing current operations, identifying the main challenges and risks at the final assembly process, developing short- and long-term projects, and enhancing efficiency. The proposed project brought productivity improvements and developed some safety, quality, and logistics opportunities. This resulted in a detailed and deep analysis of all aspects of the process and created engaged projects with the Airbus team. These efforts listed opportunities that brought 30% more time savings on the final assembly line.

PROJECT DETAILS

- **Goal:** List quick wins, carry out opportunities to reach G5 maturity, macro planning, and red spaces proposal, including a first-level action plan
- **Benchmarking:** Change in process, tooling, quality, and safety
- **Productivity:** Identify and develop solutions to improve the production process
- **Quality:** Support customers in decreasing non-conformity occurrences and solution times
- **Safety:** Identify risks and near-misses and develop solutions with the EHS team
- **Tooling:** Identify main opportunities in tool availability on the production floor
- **Logistics:** Support the team in improved parts motion and delivery at production stations
- **Expected Results:** List opportunities with at least 30% more time savings

Aerospace &
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