Jeppesen Crew Rostering

Increase roster efficiency and quality with speed

Jeppesen has the market-leading crew rostering solution, commonly known as PBS, for airlines looking to build high-quality rosters while reducing total costs and time-to-market.

With decades of experience delivering crew planning solutions to airlines around the globe, our platform simultaneously handles the most complex rules and constraints within optimization, ultimately increasing crew influence, roster construction speed and profitability.

Business Challenge

Constructing crew rosters that meet both crew and company requirements is a complex task. It involves trading multiple factors to achieve a perfect balance, which varies from month to month. Airlines need a solution that can effectively manage all essential elements to ensure high-quality rosters that satisfy both crew members and the company.

Jeppesen Solution

Jeppesen Crew Rostering offers a state-of-the-art rostering optimizer that covers various aspects of crew production, such as flight pairings, reserves, standbys and training, within the limits of legality and crew availability. The optimizer is constantly improved through ongoing research to provide industry-leading optimization capabilities.

Key Features:

- Optimization and flexibility for building high-quality rosters
- Tailoring of preferential bidding through various models
- Long-term request handling with Jeppesen Crew Request
- Scenario planning for what-if analysis
- Fatigue risk management using BAM (Boeing Alertness Model)

Key Benefits:

- Increase roster efficiency and quality
- Shorten roster construction process
- Improve profitability for airlines
- Enhance crew influence and roster construction speed
- Easily adapt to changing crew agreements

Product Details

Drive efficiency through optimization

Jeppesen's built-in optimizer efficiently manages crew roster construction, ensuring high-quality rosters that meet crew and company requirements. It enables parallel scenario runs, providing real-time progress insight and speeding up the roster construction process. This extends the window of opportunity for additional revenue capture.

Leverage tailored preferential bidding

Jeppesen Crew Bid enables your crew members to submit their preferences for specific flights, routes or days off through its web or mobile-based interface. Jeppesen Optimizer then weighs both bids and preferences to construct the most favorable roster. The bid award can be done according to several models, including weighted fairshare and strict seniority, for more flexibility.

Easily manage long-term requests

With Jeppesen Crew Request, airlines can publish flight trips and days off for crew members to request. Our tool seamlessly handles long-term requests, quota tracking, request limits, operational constraint, and can even apply different award logics, including first-come first-served or priority based on crew seniority. Crew members can follow their request processing and receive immediate feedback.

Implement regular upgrades

Our research and quality assurance groups regularly release algorithm improvements every month. Whenever convenient, incorporate the latest upgrades into your production process to continuously optimize speeds and improve roster quality and efficiency.

Manage change and explore all the options

The flexible architecture of Jeppesen Crew Rostering allows airlines to maintain the system configuration to support current operational requirements, including regulatory rules, union agreements and other considerations. For new, valuable insights into the best path forward, run what-if analyses on a constraint and regulation basis using Rave, our built-in proprietary modeling language.

Balance crew welfare and operational excellence

The Jeppesen optimizer considers bids and preferences from crew members, tailoring the rosters accordingly. Crew members enter their preferences through the web and mobile-based tool, Jeppesen Crew Bid. The bid award can be done according to several bid models, including weighted fairshare and strict seniority, allowing for flexibility.

Learn more about Jeppesen Crew Rostering at
jeppesen.com/crew-rostering