Beta Presentation
Audit Management System
The Capstone Experience
Team United Airlines Quality Assurance

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Project Overview

• Modernize the audit process through an iOS application

• Allow auditors to
  ▪ Choose a checklist for the audit
  ▪ Complete the audit
  ▪ Capture and upload audit-related images
  ▪ Generate audit documents based on the audit data
  ▪ Take notes
System Architecture
Edit Audit
Audit Information

Audit Information

AUDIT DETAILS

Date
Feb 17, 2022

Gilbert Benson
Michigan
Audit - N783
837921A
North Air
29371-82

Left airplane wing is not lifting correctly

Audit Status
Open

Audit Info Checklist In-Process Table Date
## Technical Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tr>
<td>PART NUMBER/ACRAFT/ENG EFFECTIVELY NUM.</td>
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<td>MANUFACTURER</td>
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![Technical Data Table](image)
Checklist

Section 1: Audit Preparation

1. (HF1) Lack of Communication ______ (HF2) Complacency ______ (HF3) Lack of Knowledge ______ (HF4) Distractions ______ (HF5) Lack of Teamwork ______ (HF6) Fatigue ______ (HF7) Lack of Resources ______ (HF8) Pressure ______ (HF9) Lack of Assertiveness ______ (HF10) Stress ______ (HF11) Lack of Awareness ______ (HF12) Norms ______. (Record the observed contributing Human Factors at time of finding. Up to 4 can be recorded)

   Yes □ No □ N/A □

Comment:

2. Review the fleet types and level of maintenance requested for approval or currently authorized at this station. Determine support functions that are available such as oxygen servicing, sheet metal, composites, aircraft wash, IFE, fuel tank entry, towbarless towing.

   Yes □ No □ N/A □

All support functions
Comment: are maintained and well functioning

3. Review the support functions that are available such as oxygen servicing, sheet metal, composites, aircraft wash, IFE, fuel tank entry and repair, towbarless towing, etc. scQAMC and MTISe

   Yes □ No □ N/A □

Comment:

4. Determine if any additional checklists are required for this station: 058-Line MRO / 019-Stores / 066-GSE / GM 04-15-15. (If additional audits are required and they are not assigned, contact either the Manager or Scheduler for assignment.)
What’s left to do?

• Stretch Goals
  ▪ Manager role
  ▪ Single sign-on
  ▪ Integration with United’s database

• Other Tasks
  ▪ UI tweaks
  ▪ PDF formatting
Questions?