



## The Dirty Dozen

- 1. Lack of Communication
- 2. Complacency
- 3. Lack of Knowledge
- 4. Distraction
- 5. Lack of Teamwork
- 6. Fatigue
- 7. Lack of Resources
- 8. Pressue
- 9. Lack of Assertiveness
- 10. Stress
- 11. Lack of Awareness
- 12. Cultural Norms

# AI Doesn't Replace Expertise-It Enhances It

By addressing human factors, AI helps maintenance directors, technicians, and conformity specialists stay ahead of risks while improving efficiency and compliance.

### Director of Maintenance (Part 135 Operator)

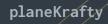
- 1. AI-powered maintenance tracking ensures all team members see real-time updates, reducing miscommunication.
- 2. Flags recurring maintenance trends and alerts you to potential risks before they become major issues.
- 3. Al-driven maintenance databases provide instant access to technical manuals, ADs, and SBs.
- 4. Automated workflows and notifications help maintain focus by prioritizing tasks.
- 5. Collaboration tools keep techs, pilots, and ops teams aligned on maintenance status.
- 6. Predictive scheduling AI can optimize workloads, reducing burnout risks.
- 7. Helps with parts forecasting, ensuring critical components are available when needed.
- 8. Al-driven scheduling can help balance workloads and reduce last-minute rushes.
- 9. Al-backed data can provide techs with solid evidence to justify necessary repairs or delays.
- 10. Streamlines reporting and compliance, reducing the administrative burden.
- 11. Anomaly detection highlights potential safety concerns before they escalate.
- 12. Helps standardize procedures and ensure adherence to best practices across the organization.

### Dedicated Technician

- 1. Al-based mobile apps ensure real-time updates on job status and work orders.
- 2. Al-generated maintenance alerts prevent "pencil whipping" and encourage thorough inspections.
- 3. Provides step-by-step guidance, technical references, and instant troubleshooting recommendations.
- 4. Al-assisted checklists help techs stay focused on tasks without skipping steps.
- 5. Al-driven task assignment ensures clear role distribution and accountability.
- 6. Tracks workload trends and can suggest better work-rest balance.
- 7. Inventory tracking ensures the right tools and parts are available.
- 8. Scheduling helps technicians manage tasks without unnecessary time constraints.
- 9. Provides data-backed justifications for maintenance decisions.
- 10. Automates paperwork, reducing the burden on technicians.
- 11. Can detect trends in maintenance issues, prompting proactive solutions.
- 12. Enforces SOPs, preventing shortcuts and reinforcing safety culture.

Why wrestle with paperwork when AI can do the heavy lifting? PlaneKrafty<sup>™</sup> handles your docs from day one to done—so you can focus on what actually matters.

Get in the flow at: www.planeKrafty.com





## The Dirty Dozen

- 1. Lack of Communication
- 2. Complacency
- 3. Lack of Knowledge
- 4. Distraction
- 5. Lack of Teamwork
- 6. Fatigue
- 7. Lack of Resources
- 8. Pressue
- 9. Lack of Assertiveness
- 10. Stress
- 11. Lack of Awareness
- 12. Cultural Norms

# AI Doesn't Replace Expertise-It Enhances It

By addressing human factors, AI helps maintenance directors, technicians, and conformity specialists stay ahead of risks while improving efficiency and compliance.

#### Conformity Specialist

- 1. AI-based tracking systems provide a centralized source of truth for aircraft conformity data.
- 2. Continuously cross-checks documentation, preventing overlooked errors.
- 3. Offers real-time reference checks for certification requirements.
- 4. Al-automated workflows ensure nothing gets missed in the conformity process.
- 5. Al-driven dashboards allow transparency and coordination between departments.
- 6. Speeds up documentation review, reducing long hours spent on manual verifications.
- 7. Helps locate missing documentation and historical maintenance records.
- 8. Streamlines audit prep, reducing last-minute scrambles for compliance.
- 9. Al-generated reports provide clear evidence for enforcing regulatory compliance.
- 10. Automates repetitive data entry, reducing human error and mental strain.
- 11. Al-driven analytics highlight inconsistencies in certification paperwork.
- 12. Standardizes conformity checks, ensuring all aircraft meet the same regulatory expectations.

#### Director of Maintenance (Part 145 Repair Station)

- 1. Al-enabled dashboards provide real-time updates across departments (QA, inspection, tech ops), reducing miscommunication between shifts or teams.
- 2. Predictive maintenance algorithms flag irregular trends early, keeping teams proactive rather than reactive—even with familiar equipment or procedures.
- 3. Platforms offer immediate access to manuals, ADs, SBs, and training content—supporting decisions with up-to-date technical and regulatory knowledge.
- 4. Prioritization tools and automated alerts help keep you focused on critical tasks like return-to-service authorizations or audit prep.
- 5. Al-based collaboration tools keep techs, pilots, and ops teams aligned on maintenance status.
- 6. Predictive scheduling AI can optimize workloads, reducing burnout risks.
- 7. Helps with parts forecasting, ensuring critical components are available when needed.
- 8. Al-driven scheduling can help balance workloads and reduce last-minute rushes.
- 9. Al-backed data can provide techs with solid evidence to justify necessary repairs or delays.
- 10. Streamlines reporting and compliance, reducing the administrative burden.
- 11. Al-powered anomaly detection highlights potential safety concerns before they escalate.
- 12. Helps standardize procedures and ensure adherence to best practices across the organization.

Why wrestle with paperwork when AI can do the heavy lifting? PlaneKrafty<sup>™</sup> handles your docs from day one to done—so you can focus on what actually matters.

Get in the flow at: www.planeKrafty.com