



## 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. Pressure
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. AI-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. AI-driven scheduling can help balance workloads and reduce last-minute rushes.
9. AI-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. AI-based mobile apps ensure real-time updates on job status and work orders.
2. AI-generated maintenance alerts prevent “pencil whipping” and encourage thorough inspections.
3. Provides step-by-step guidance, technical references, and instant troubleshooting recommendations.
4. AI-assisted checklists help techs stay focused on tasks without skipping steps.
5. AI-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™ handles your docs from day one to done—so you can focus on what actually matters.

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## 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. AI-automated workflows ensure nothing gets missed in the conformity process.
5. AI-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. AI-generated reports provide clear evidence for enforcing regulatory compliance.
10. Automates repetitive data entry, reducing human error and mental strain.
11. AI-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. AI-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. AI-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. AI-driven scheduling can help balance workloads and reduce last-minute rushes.
9. AI-backed data can provide techs with solid evidence to justify necessary repairs or delays.
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