



EHS Case Study

Be Ready to Create Operational Excellence



Axonator Establishes A Digital EHS System for the World's Leading Automaker

This case study examines a success story of how the world's leading automaker leveraged Axonator to digitize its entire (Environment, Health, and Safety) processes and reduced safety incidents, minimize compliance penalties, alongside fixing safety violations on time.

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"The automaker was looking to digitize its EHS operations to reduce their safety incidents, minimize compliance penalties, alongside fixing safety violations on time."



Being the world's leading automaker is no easy feat. The century-old automaker has 61 production plants around the globe. The company's current operations in the United States rely on shop-floor employees who previously worked with manual processes and complex systems in the production line before partnering up with Axonator.

Organization: Ford Motors

Location: United States of America

Revenue: Approx. \$150B

Use Cases: EHS Management, Safety Inspection, Safety Audit, Safety Process Automation.

Employees: 2000 Shop-floor Employees

Production Capacity: 8767 Vehicles/Day



The Challenge

Before partnering with Axonator, the automaker suffered heavy safety violation penalties due to significant employee injuries, primarily because of the paper and spreadsheet-based management of their EHS (Environment, Health, and Safety) operations.

The company also tried the hands-on ready software that only helped them with data collection. The company couldn't use that software as it was not customizable per their processes.

Besides, they were unable to get instant insights from the gathered data, and their team also spent hours creating and sharing reports with management.

Such processes resulted in several challenges:

- Heavy safety violations and penalties due to major injuries to employees.
- Lawsuits & heavy penalties due to lapses in safety compliance.
- Delays in flagging and resolving safety violation issues due to paper-based manual processes.
- Unable to track safety violations and monitor them till they get resolved.
- Difficulties in sending and receiving reminders to fix safety issues.
- Inability to capture real-time safety data and images on a workstation.
- Paper-based processes to assign & track the status of corrective actions.
- No insights on KPIs to improve work efficiency.
- Challenges in managing entire safety data in one place.

Such inefficient manual processes majorly resulted in safety violations and penalties due to major injuries, non-conformance, and more.



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Using paper forms and spreadsheets makes it extremely difficult to track and resolve safety violations for our safety officers, "Everything is managed manually and prone to mistakes like non-compliance, delays in fixing safety issues, and more.

Mr. Jared Black, EHS Specialist

The Automaker aimed to take innovative steps to reduce safety incidents across the plant by providing a safer environment to their employees.

The company's search for solutions ended when they contacted Axonator to go digital entirely and replace all manual processes in all production lines involved.

The Solution

Axonator paved the way for the company in small but meaningful mobile apps. These apps were deployed across many verticals to streamline every aspect of the company's field processes, including mobile workforce performance and digital transformation.

✓ Digitized Safety Operations with Mobile Apps

Axonator launched phase one to digitize the company's safety inspections and audits by replacing their paper forms & checklists with mobile apps. The mobile app enabled their employees to record critical safety-related

information and perform audits anytime, anywhere, helping the company to comply with international OSHA (Occupational Safety and Health Administration) standards.



Paperless Data Capture Process

Some Examples of Forms & Checklists Include

✓ Safety Audit Form

✓ Safety Violation Form

✓ Ergonomic Assessment Form

✓ Emergency Action Form

✓ Safety Data Sheet

✓ OSHA Compliance Checklists

✓ Health & Safety Checklists

✓ Industrial Safety Checklist

✕ Checklist

Date
10/06/2022

Activity
Ergonomics

1. Have any operators been diagnosed with Carpal Tunnel, Tenosynovitis, Trigger Finger, Muscle Strains, or Back Ailments?

✓ Yes No

2. Have there been any operator complaints about ergonomic or similar past activities?

✓ Yes No

3. Are the employees performing any high repetition tasks? (> 1000 reps per hour)

✓ Yes No

4. Does the task require repeated heavy lifting? (>20lb lift at least 5 reps per day)

✓ Yes No

5. Are the tools designed to operate in an ergonomically neutral posture?

✓ Yes No

6. Do employees perform tasks with an awkward head or neck posture for an extended period of time?

✓ Yes No

7. Do employees perform tasks that require awkward back angles to be held for extended periods of time? i.e. hunching, bending, or squatting

✓ Yes No

8. Do employees perform tasks with an awkward elbow angle for an extended period of time or with extreme force application?

✓ Yes No

9. Do employees perform tasks with an awkward elbow abduction angle for an extended period of time or with extreme force application?

✓ Yes No

✕ Checklist

Save

Risk Factor Guide

Head & Neck	Elbow Angle	Elbow Abduction	Wrist Flexion	Wrist Extension
Optimal work posture: 0° to 15°	Optimal work posture: 90° to 120°	Optimal work posture: 0° to 20°	Optimal work posture: 0° to 15°	Optimal work posture: 0° to 15°
Moderate stress: 15° to 30°	Moderate stress: 120° to 135°	Moderate stress: 20° to 30°	Moderate stress: 15° to 30°	Moderate stress: 20° to 30°
Severe stress: 30° to 45°	Severe stress: 135° to 150°	Severe stress: 30° to 40°	Severe stress: 30° to 40°	Severe stress: 30° to 40°
Hip/Lower Back Flexion	Reaching	Task Height	Workstation Height	
Optimal work posture: 0° to 5°	Optimal work posture: Male 15° to 17° Female 5° to 12°	Optimal work posture: Male 30° to 35° Female 15° to 35°	Optimal work posture: PRECISION WORK Male 40° to 45° Female 38° to 42°	
Moderate stress: 5° to 10°	Moderate stress: Male 17° to 20° Female 12° to 18°	Moderate stress: Male 35° to 40° Female 35° to 40°	Optimal work posture: SMALL LIGHT WORK Male 38° to 38° Female 34° to 34°	
Severe stress: 10° to 15°	Severe stress: Male 20° to 25° Female 18° to 20°	Severe stress: Male 40° to 45° Female 40° to 45°	Optimal work posture: LARGE HEAVY WORK Male 30° to 30° Female 28° to 34°	

Date
10/06/2022

Activity
Ergonomics

1. Have any operators been diagnosed with Carpal Tunnel, Tendonitis, Tenosynovitis, Trigger Finger, Muscle Strains, or Back Ailments?

✓ Yes No

2. Have there been any operator complaints about ergonomic strain for this activity?

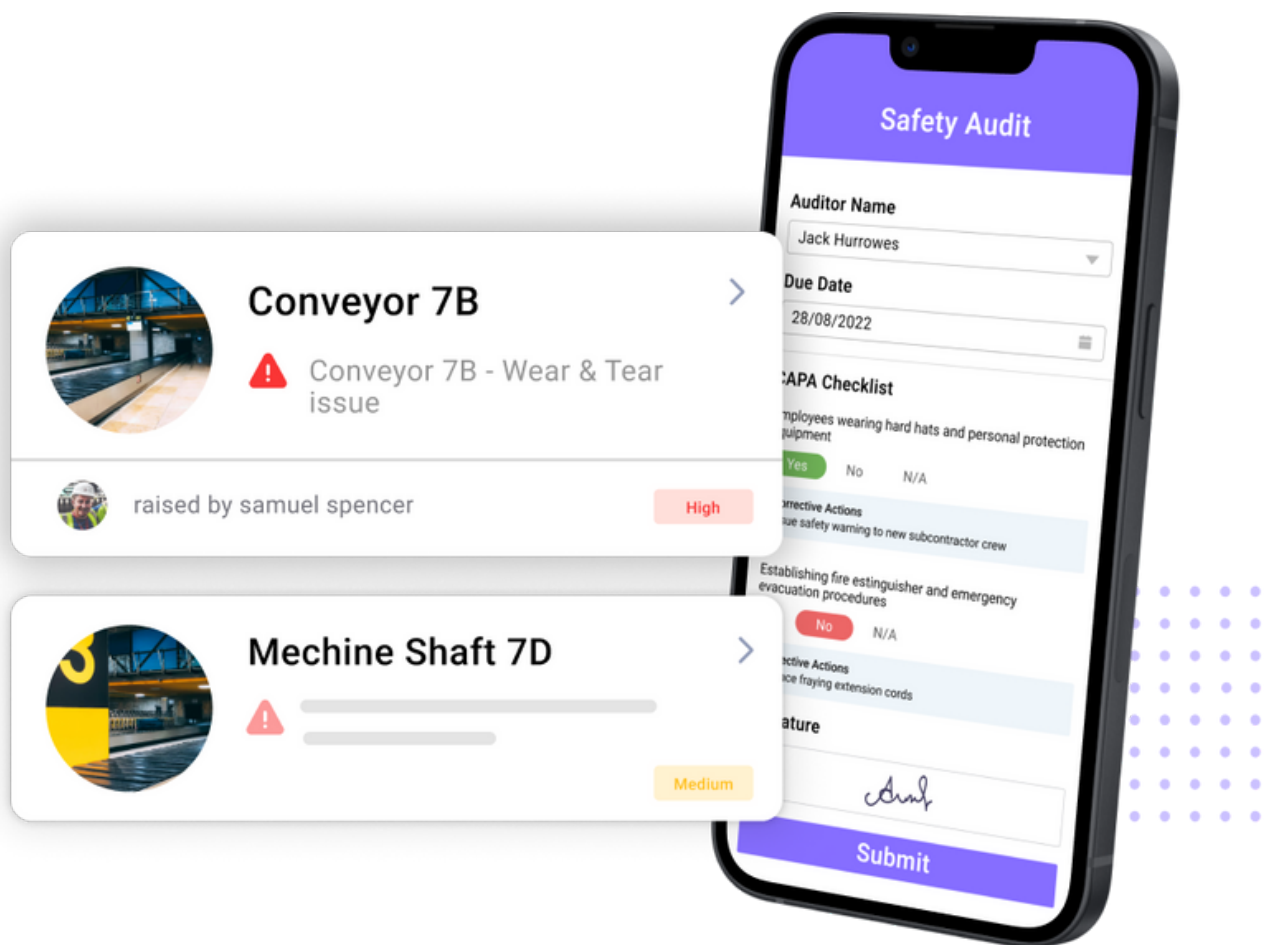
✓ Yes No

✓ Mobile Apps to Record, Track, and Resolve Safety Violations

Axonator's mobile apps empowered the company's employees to record real-time safety violation data using mobile apps. The company effortlessly added images and notes to each safety violation record to ensure that all safety violations are recorded in detail.

The corrective measures ensured that all safety violations were addressed quickly for resolution.

Axonator's scheduler feature ensured team members got timely reminders if they failed to act on the corrective action. The feature helped the company to track complete safety violations in all their production lines.



✓ Automated Near Misses & Incident Reporting

Axonator empowered the automaker to record information related to near-misses, incidents, and other safety hazards using a mobile app.

It also helped the company to generate automated near misses and incident reports to take further actions on resolution.

✓ KPI Analysis to Improve Safety

The automaker can now store all their safety audits & inspection data in a centralized place. Extending the capabilities of mobile apps, a custom dashboard was created for the company to read data in real-time and extract valuable insights on key performance indicators (KPIs) to improve safety standards and make data-driven informed decisions.



THE IMPACT

69%

REDUCTION IN SAFETY INCIDENTS WITHIN A YEAR

\$27M

SAVINGS IN TERMS OF REDUCED COMPLIANCE PENALTIES

61%

REDUCTION IN MAJOR INJURIES WITHIN 6 MONTHS

THE WORLD ON MOBILE



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Operating Since 2020



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