Safety Agent
AI-Powered Workplace Safety, On Demand

Covasant's Safety Agent, built on Microsoft Azure with GenAI and Retrieval-Augmented Generation (RAG), transforms inaccessible SOPs, safety manuals, and compliance documents into instantly accessible, actionable answers, enabling manufacturers to prevent incidents, enhance compliance, and unlock up to **$3M in annual savings** for a mid-sized company.

To amplify safety outcomes, companies can also deploy adjacent agents alongside Safety Agent, covering incident detection, training, compliance automation, and predictive maintenance.

Incident Detection & Reporting Agent

Uses CCTV and IoT data to detect safety violations and auto-generate incident reports in real time.

Training Agent

Provides contextual, bite-sized safety training triggered by incidents or user queries via mobile or kiosk.

Compliance Automation & Tracker Agent

Automates safety compliance updates, logs audit trails, and alerts teams to regulatory gaps.

Predictive Maintenance Agent

Analyzes sensor and IoT data to forecast equipment failures and schedule proactive maintenance.

Safety & Compliance Challenges in Manufacturing

Fragmented Knowledge

SOPs and manuals scattered across systems slow response and cause deviations.

Rising Injury Costs

Each incident costs ~$42K; total U.S. burden **$170B annually.**

Regulatory Exposure

OSHA fines up to **$160K per violation**, plus reputational damage.

High Workforce Turnover

40% churn creates skill gaps, retraining costs, and knowledge drain.

How Safety Agent Powers Safer, Smarter Operations

Faster Answers

Reduces time-to-answer from hours to seconds by transforming safety documentation into instant guidance.

Safer Operations

Helps cut recordable injuries by up to **20%** through faster, informed decision-making.

Proven ROI

Saves **$300k per mid-size plant annually** by reducing incidents and operational delays.

Enterprise-Grade SaaS

Secure, scalable, and delivered on Microsoft Azure, ready for global deployment.

Business Impact

Incident Rate
↓ **30-40%**
within the first year

Response Time
<15 seconds
(vs. 5–10 minutes)

Compliance
Avoid 1–2 OSHA fines
per site annually

Productivity
+$100K/year
from faster info access

Net Annual Benefit: ~$350K per mid-size plant

Industries We Serve

Manufacturing

Logistics & Warehousing

Energy & Utilities

Chemicals

Construction

Mining & Metals

Automotive

Food & Beverage Processing

Aerospace & Defense

Powered by Microsoft Azure

Data & Ingestion

Blob Storage

Form Recognizer

AI/ML

Machine Learning
(Embeddings + Generative Models)

Machine Learning Search

Cosmos DB

Application Layer

Container Apps

Analytics

Synapse Analytics

Power BI

Security & Compliance

Active Directory

VNet

Customer-Managed Keys (CMK)

Are you Ready to Prevent the Next Incident Before It Happens?

Schedule a Demo