The Connected Workforce Solution

Quality Systems Excellence – Connections Delivering Improvements

Food Safety Summit – May 10, 2023
Dignity, Purpose and Growth.
Eliminate
Food Safety Risks

Reduce
Admin Burden

Ensure
Audit Ready
Manual or Unused Systems

Factory in the Dark

Time, Resources, & Skills

Departments Working in Silos
FDA Warns After Repeated Food Recalls for Undeclared Allergens

Recalls Ready-To-Eat Salad Containing Chicken Due to Misbranding and Undeclared Allergens

FSIS Issues Public Health Alert for Ready-to-Eat Chicken Meal Kits Due to Misbranding and Undeclared Allergens

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FSIS Issues Public Health Alert for Ready-To-Eat Salad Containing Meat and Poultry Products Due to Misbranding and Undeclared Allergens
Paperless Flexibility

- Data Capture Options
- Regulatory Compliance
- Build/Configure Checks/Audits with Triggers and Reactions
- Audit and Analyze Realtime Data

- Leverage iPad Technology
- LEGO Compliance
- SQF
- FDA 21 CFR Part 11
- QAD
- Redzone
Compliance

**Paperless Quality**
- Simple Paperless QA Checks
- Auto Trigger/Alert to missed or failed checks
- Management by Exception
- Integrate Quality into Ops

**Statistical Process Control**
- Reduce & Control Giveaway
- Alerts Out-of-Control State
- Deep Statistical Analysis (Cp, Cpk, Cm, & more)
- Develop True Process Capability

**Production Checks**
- Checklists to standardize work
- Trigger Checks on time basis
- Startups & Sanitation
- Increase Compliance & Alerting
- Enable paperless EHS, GMP incident reports

**Audits**
- 5S / Safety / GMP / TPM
- Weighted Scoring
- Real Time Track & Trend
- Set Behavioral Standards
- Trigger Actions on Failures
Labor Shortage
Changing demographics

Turnover
Absenteeism and turnover reducing tenure & experience

Wage War
Wage increases not moving the dial

Inflation
Energy & material cost increases
10,000 Baby Boomers Retire Everyday
*US Census Bureau

2.8% Labor Productivity Not Keeping up with Inflation
*Bureau of Labor Statistics

27% of parents consider manufacturing an acceptable career for their children
*Society of Manufacturing Engineers (SME) Survey

2.4M Skilled Worker Shortage
*Deloitte's 2021 Manufacturing Skills Gap Study

70% Workers Unengaged
*Emergence Capital: The State of Technology for deskless workforce

40% Employee Turnover
*Bureau of Labor Statistics
+14pts
OEE

+29%
Productivity

Benchmark Report 90-day Results
1100+ Plants
350k Frontline Workers
39M Production Runs
2.5B Frontline Collaborations
Average Results

- 29% Productivity Uplift
- 74% Increase in Engagement
- 32% Reduction in Staff Turnover
Gartner – Defining the Connected Frontline Worker Space

- Continuous Improvement
  - Reporting and KPI Management
  - Pre-shift meetings and shift handovers
  - Gemba

- Collaboration
  - On-site, remote, or hybrid assistance and guidance
  - Group-based troubleshooting
  - Suggestion and recommendation capture

- Standard Work
  - Digitized SOPs
  - SOP creation and management
  - Guided workflow

- Training
  - Skills and certification management
  - Knowledge capture
  - On-demand, interactive content

- Quality and Compliance
  - Audits and inspections (on-site or remote)
  - Safety
  - Incident management/reporting
  - Preventative measures

KPI = key performance indication; SOP = standard operating procedure
Source: Gartner
WINNING TOGETHER

SYSTEMATIC

WIN THE DAY

KNOW THE SCORE

REDZONE PRODUCTION SYSTEM FORMULA

KNOW THE SCORE
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