LOGICAL SYSTEMS
AUTOMATION & INTEGRATION SERVICES



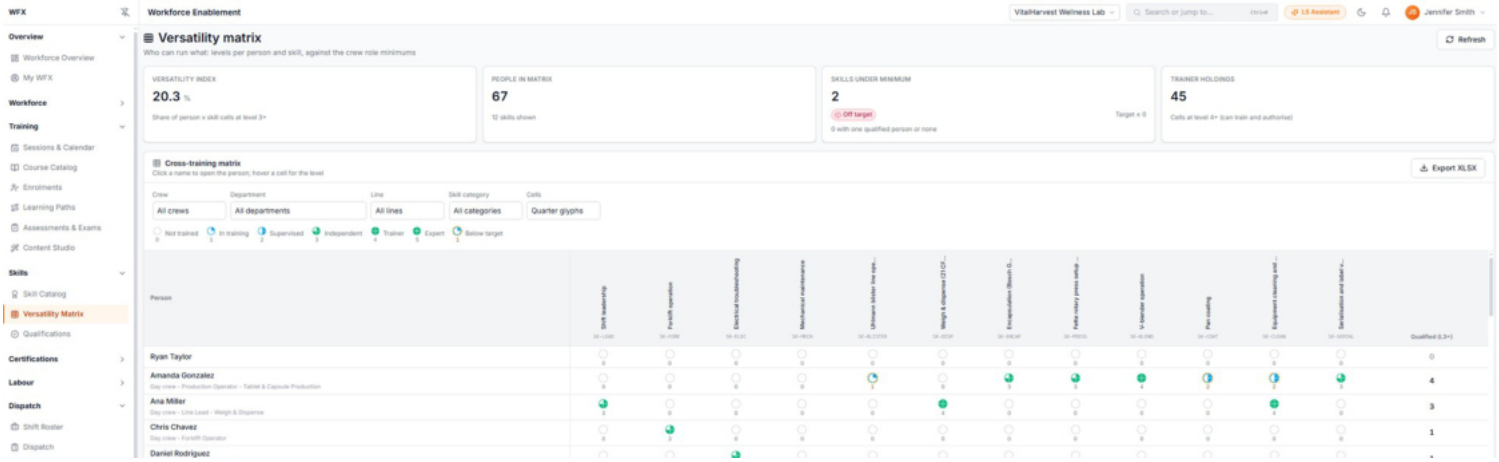
"Knowing who is on shift is not enough. WFX shows who is qualified and ready for each station and flags gaps before work begins."
Plant Operations Manager, Global Food Processing Manufacturer

DATASHEET

Workforce Enablement

The Right People. Proven Ready. On Every Shift.

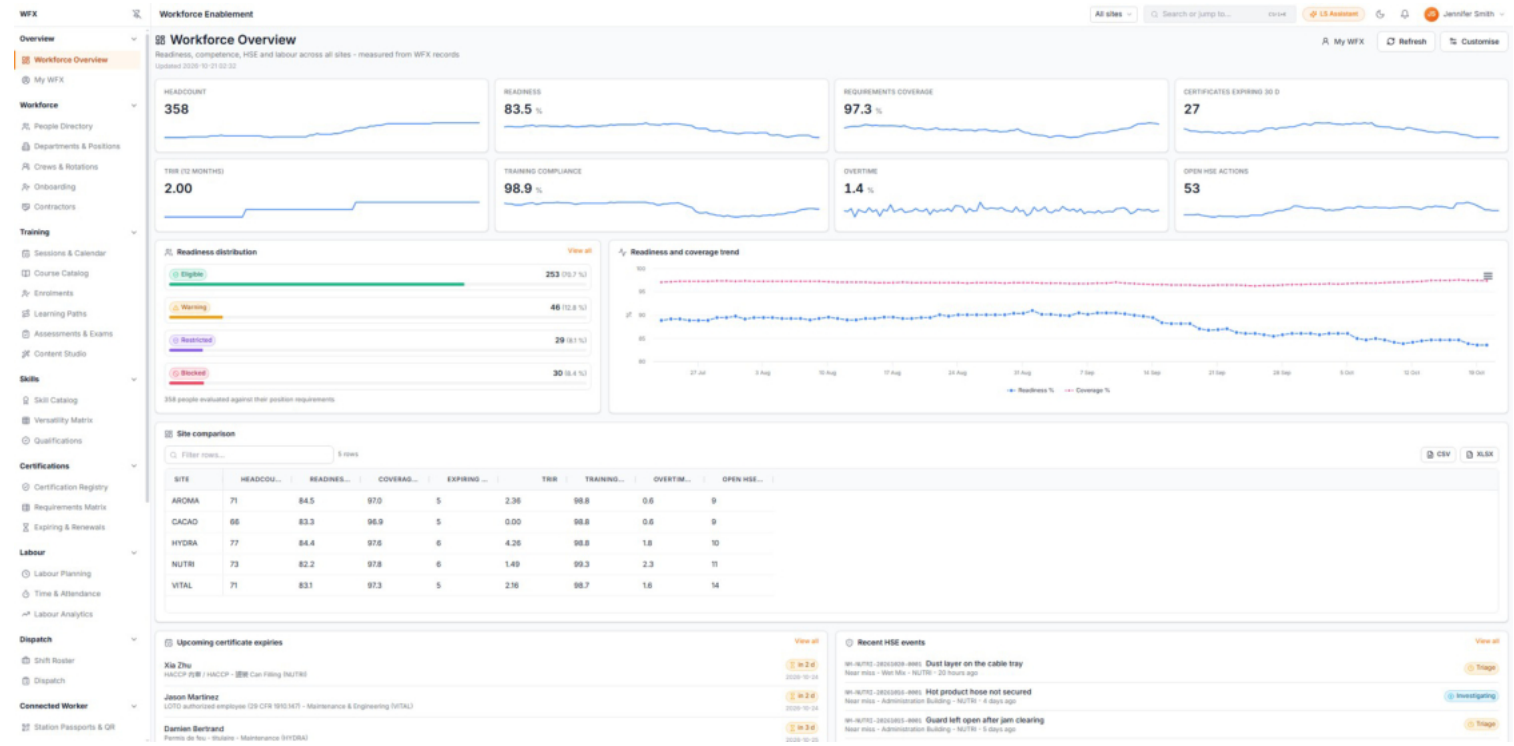
Manufacturing runs on people, yet the record of what those people may do is scattered: training in learning systems, certificates in spreadsheets, qualifications in a supervisor's head, hours in payroll, safety files in yet another system, none of them connected to the line. The gaps surface at the worst moments: an operator at a station they are not qualified for, an expired license discovered mid-audit, a shift that starts short because nobody saw it coming. LOGICAL SYSTEMS Workforce Enablement (WFX) brings workforce, training, competence, labor and HSE management into one application running natively on the Ignition® Perspective platform. At its core is a readiness engine: every position and station carries its requirements (certificates, skills, qualifications, inductions and fitness for work). WFX evaluates every person against them continuously, rolling the result up to one state: Eligible, Warning, Restricted or Blocked. An expired regulatory certificate blocks work wherever it is required; an expiring one warns before it bites. One glance tells a supervisor who can take a station, and the same decision gates rosters, dispatches and permits.



Around that core, WFX manages the full employment lifecycle: onboarding that drives new starters step by step across TMS, QMS, HRIS and CMMS; training from classroom to e-learning with exams, practical observations and AI-assisted authoring that turns your SOPs into courses; skills, versatility and automated certificate renewals; crews, time & attendance and labor planning; and a full HSE suite from incidents and permits to work through to musters and environmental limits. On the floor, a QR code at any station opens its passport: requirements, qualified people, live permits and work instructions. WFX runs out of the box with an embedded database, scales site by site over the Ignition Gateway Network, and backs every decision with 21 CFR Part 11 electronic signatures and an immutable audit trail.

One Record of Who Can Do What

Readiness You Can Prove for Every Person, Position and Station



Live workforce KPIs: headcount, readiness, requirements coverage, training compliance, overtime and expiring certificates, with TRIR and HSE actions on the same screen.
Readiness Overview: readiness distribution and trend across every site, with site-by-site comparison.
Needs Attention: upcoming certificate expiries and recent HSE events, one click from the record behind each.
Site Comparison: headcount, readiness, coverage, TRIR and training compliance side by side for every site.

The Complete Employment Lifecycle

WFX keeps one living record per person and puts it to work everywhere.

People employees, contractors and temporary staff in one directory: employer, crew, readiness state, certificates, skills and qualifications on a single profile, with departments, positions, budgeted headcount and vacancies behind it.

Training classroom, e-learning, blended, workshop, practical and on-the-job courses; session calendar with capacity, waitlists and e-signed attendance; enrollment approvals; learning paths; exams with question banks and multi-language delivery; practical observations.

Skills five proficiency levels from Not trained to Trainer with per-skill descriptors, a versatility matrix exposing cross-training gaps, and station qualifications granted through e-signed authorization.

Certifications internal, external and regulatory certificates with verified documents, requirements by position and station, and a renewals pipeline that enrolls people into refresher training before expiry.

Onboarding & Contractors onboarding programs drive steps across WFX, TMS, WFM, APS, QMS, HRIS and CMMS; contractor companies carry insurance validity, inductions and the permits their people hold.



One readiness decision, enforced everywhere

The decision is also a history. WFX keeps the readiness state of every person for every day, and the 90-day strip on each profile shows exactly when someone was Eligible, Warning, Restricted or Blocked, and why. When an auditor asks who was allowed at a station on a given date, the answer is one click, not a week of spreadsheet archaeology.

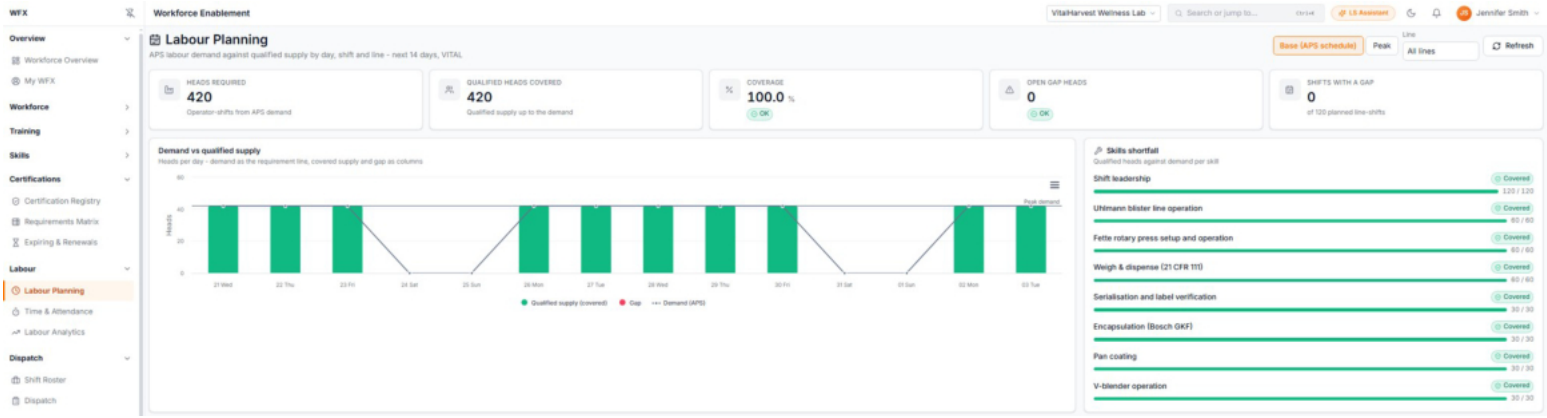
And it is one record, not five systems. The file starts at onboarding, grows with every session, exam, observation and renewal, and follows the person through position changes. HR sees headcount and vacancies, training sees compliance, supervisors see who can take the next shift, and all of them are looking at the same record. The spreadsheets, binders and parallel lists retire, and the plant runs on one answer to one question: who is ready to work right now.

From the Plan to the Floor

Labor, Connected Workers and HSE Run on the Same Readiness Decision

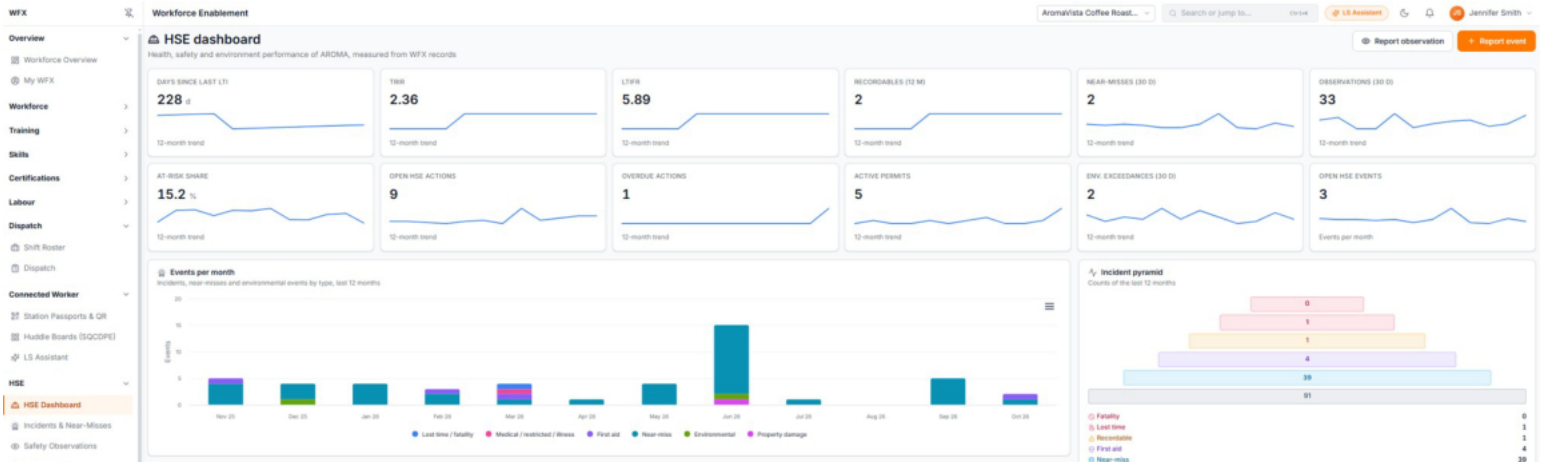
WFX plans and staffs the shift with the same engine that proves competence. Labor Planning compares demand from LS APS against the qualified supply per skill and shift, so gaps appear days ahead, not at handover. The Shift Roster places crews through their rotations, badge punches feed Time & Attendance with exceptions and approvals, and configurable working-time rules flag breaches before they become findings, from the EU Working Time Directive to the national limits of each site's own jurisdiction. Approved hours export to payroll. When a TMS task needs a person, Dispatch ranks the eligible candidates by readiness and availability: the task, its checklist and its execution stay in TMS, while WFX records who was assigned and why. Blocked candidates cannot be picked.

On the floor, every station carries a QR code: scan it and the station passport opens with the station's requirements, qualified people, PPE, live permits, JSA and TMS work instructions, and operators sign on with a badge scan that checks their readiness on the spot. Huddle Boards run tiered daily management (SQCDPE: Safety, Quality, Cost, Delivery, People, Environment) across Tier 1, 2 and 3, with actions executed in TMS, CMMS, QMS or WFX. Toolbox talks are delivered at the line with e-signed attendance. WFX runs on the devices the plant already uses, with Perspective sessions on kiosks, tablets and phones. Sign-ons captured while a device is offline are reconciled when it reconnects.

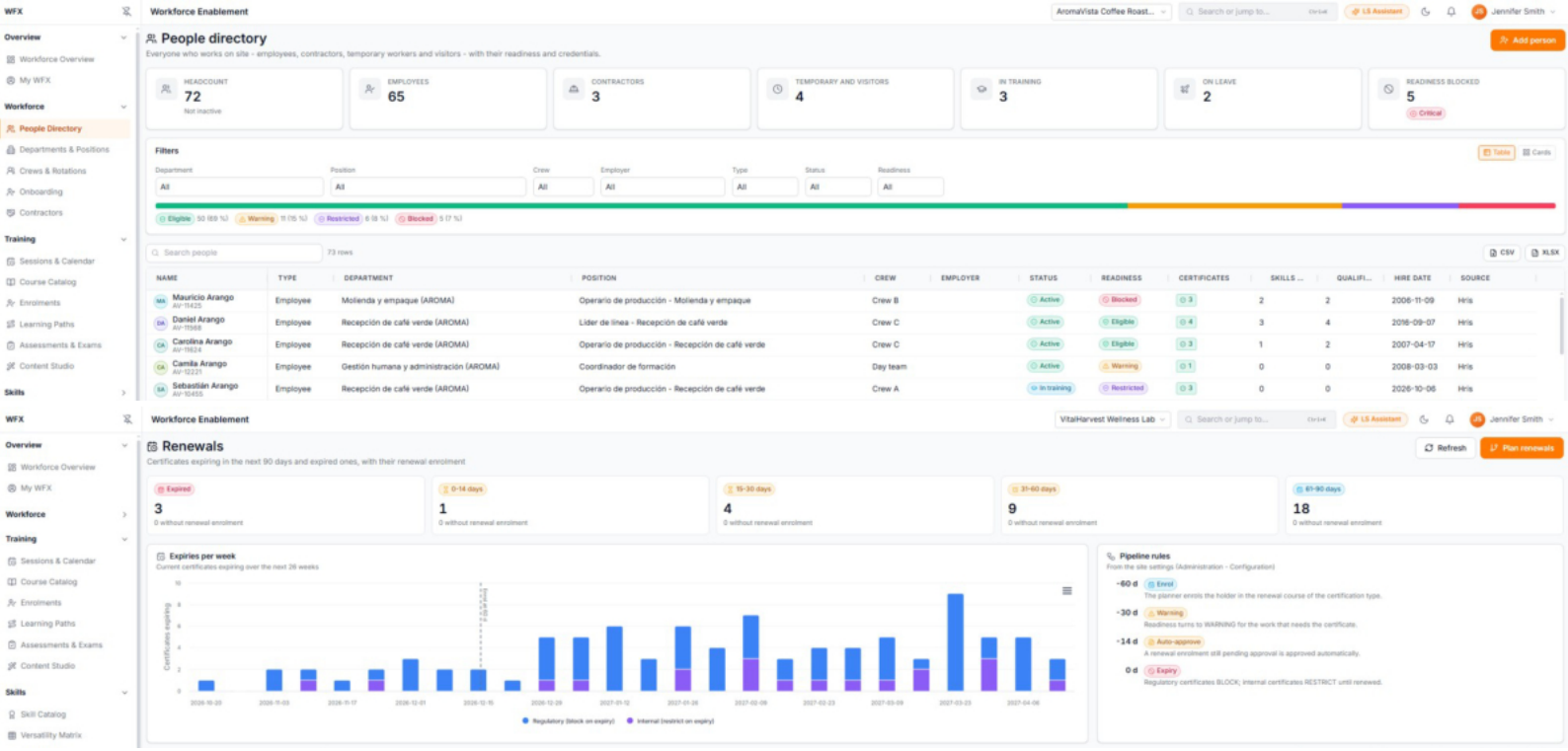


The HSE suite closes the loop from event to action. Incidents and near-misses move through a staged workflow of reported, triage, investigation, actions and closed, with structured 5-Why investigations and corrective actions raised as WFX or TMS actions. Jurisdiction profiles drive the regulatory side: recordability rules and reporting clocks per site, such as OSHA 29 CFR 1904 in the US, FURAT/ARL in Colombia and SUVA in Switzerland, with OSHA 300/300A logs and TRIR/LTIFR computed from the same records. Permits to work cover hot work, confined space, working at height, electrical isolation and more, tied to JSAs with before/after risk matrices and the hierarchy of controls. PPE issue, stock and inspections; occupational health that stores outcomes and restrictions, never medical detail; behavior-based safety observations; emergency preparedness with muster events, drills against evacuation targets and equipment checks; and environmental parameters read from Ignition tags with limit and exceedance tracking. With LS RCS, WFX stays the record for incidents, permits to work and hours worked and passes the safety figures to RCS for compliance reporting and sustainability disclosure, while environmental permits and limits are managed in RCS.

WFX puts AI to work where it saves real hours and keeps it governed. Content Studio turns existing SOPs and documents into draft courses, exams and translations for human review. LS Assistant answers from your own WFX data, and Custom Reports are built by describing them in plain language. No-code Automations connect triggers, conditions and actions: notify a supervisor before a certificate expires, raise a toolbox talk after repeated near-misses, page the HSE manager when a muster starts. An MCP server exposes governed tools to external AI agents under scoped, expiring tokens. The AI layer is provider-agnostic and runs against any LLM-compatible endpoint, including on-premises, with daily budgets, identifier redaction and conversation logging off by default. It ships disabled: WFX is fully functional without it.



Whether you run one plant or a global fleet, every site runs its own WFX instance with its own embedded store and synchronizes configuration and operational data with the Global instance over the standard Ignition Gateway Network. Curated, pseudonymized datasets publish to LS MI for enterprise analytics, events hand off to MNS for managed notifications, and every signature, override, grant and change lands in an immutable, verifiable audit trail.



Key Features and Benefits

Features

- Readiness engine with four states, Eligible, Warning, Restricted and Blocked, continuously evaluated
- Requirements matrix and certification registry with automated renewals
- Training: sessions, e-learning, learning paths, multi-language exams and practical observations
- Content Studio: AI-assisted courses, exams and translations from your documents
- Five-level skills with versatility matrix and e-signed station qualifications
- Labor: crews, rotations, time & attendance, APS demand planning, TMS dispatch
- Station passports with QR and badge sign-on; huddle boards; toolbox talks
- Complete HSE suite: incidents, permits, JSAs, PPE, emergency, environmental
- 21 CFR Part 11 e-signatures, immutable audit trail, multi-site over the Ignition Gateway Network

Benefits

- Prove competence and compliance on demand: the evidence is already assembled
- One readiness decision gates stations, rosters, dispatches and permits
- Fewer surprises: expiries warn ahead, renewals enroll themselves
- Faster time to competency, measured per department
- One workforce record across HR, training, labor and HSE
- Cross-training gaps visible before they hurt coverage
- Jurisdiction-ready HSE reporting out of the box
- Runs on your existing Ignition infrastructure, no extra servers
- Sites operate autonomously and synchronize when the link returns

Technical Requirements

System Requirements

Ignition® (8.1.+) Core Modules, Quad-core processor, 16 GB RAM, 10 GB free disk space

Supported Operating Systems

Windows Server 2019/2022/2025, Windows 10/11, macOS (X, 10.16+), Linux (Ubuntu, CentOS, RHEL)

Supported Protocols

MQTT, OPC UA / OPC DA, REST API (JSON Payloads)
Kafka (via connector), Snowflake (via pipeline, data bridge)

Supported Databases

Microsoft SQL Server, Oracle, MySQL, MariaDB, PostgreSQL, any database with JDBC driver

Supported Browsers

Chrome, Firefox, Safari, Microsoft Edge



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