



LIMS Implementation & Readiness Audit

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Prepared for: LinkedIn Subscribers

Phase 1: Process & Workflow Maturity

- **Manual Bottleneck Mapping:** Have you identified the top 3 manual tasks that consume the most scientist time?
- **Workflow Future-Proofing:** Are you digitizing your *current* process, or have you optimized the process *before* automating it? (Never automate a broken process).
- **SOP Alignment:** Are your Standard Operating Procedures updated to reflect a digital environment rather than a paper-based one?

Phase 2: Data Architecture & Connectivity

- **Instrument Inventory:** List every GC, HPLC, and ICP in the lab. Which ones have native RS232/Ethernet export capability?
- **"Island" Identification:** Identify legacy equipment that requires manual transcription. These are your highest risk points for data integrity.
- **Network Readiness:** Does your lab have stable, high-speed connectivity at every bench and instrument station?

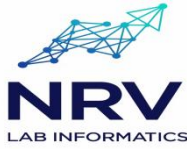
Phase 3: Compliance & Regulatory Guardrails

- **21 CFR Part 11 Audit:** Does your planned architecture support electronic signatures and unalterable audit trails?
- **Validation Strategy:** Do you have a plan for IQ/OQ/PQ (Installation, Operational, and Performance Qualification)?
- **Data Residency:** Does the solution meet local data residency requirements (critical for UAE/Global operations)?

Phase 4: The Human Factor (User Buy-in)

- **Scientist-First UX:** Has a "bench scientist" (not just a manager) reviewed the proposed interface?
- **The "Time-Back" Guarantee:** Does the system save the end-user more time than it takes to input the data?
- **Super-User Program:** Have you identified one "champion" in each department to lead peer-to-peer training?

Phase 5: Data Migration & Hygiene



- [] **Legacy Data Value Assessment:** Do you actually need to migrate 10 years of data, or is 2 years of "active" data enough?
- [] **Standardization:** Is your master data (vials, reagents, units) standardized across all departments?

Take the Next Step in Your LIMS Journey: Every laboratory has a unique digital footprint. This checklist is a starting point, but the real ROI comes from tailored strategy.

For a 15-minute diagnostic call to discuss your specific LIMS migration:

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