

Water Quality Inspection Workflow: Digital Management For Utilities & Compliance



▷ **Start**

Start of the Workflow/Process.

 **1. Schedule Inspection Task**

Create the initial inspection task based on service type and location.

 **2. Retrieve Site Details**

Fetch specific site data (e.g., system type, last inspection date) for context.

 **3. Fetch Water Sample Reading Data**

Retrieve historical or prerequisite water quality test results.

 **4. Record Daily Test Results**

Allow inspector to input real-time readings (pH, Turbidity, etc.).

 **5. Update Equipment Status**

Mark components (pumps, valves, filters) as operational or needing repair.

📌 **6. Assign Follow-up Action Items**

Generate necessary follow-up tasks for maintenance or corrective actions.

⚙️ **7. Calculate Non-Conformance Score**

Execute a formula to determine overall site compliance based on multiple failing readings.

📄 **8. Generate Inspection Summary Report**

Compile all recorded data (tasks, results, notes) into a comprehensive, downloadable report.

✉️ **9. Notify Stakeholders of Completion**

Send automated email summary report to manager and client upon workflow completion.

📱 **10. Alert Out-of-Specification Readings**

Send immediate SMS alert for critical readings (e.g., pH outside safe range).

✅ **End**

Start of the Workflow/Process.