



NORDELTA TECHNOLOGIES / FIELD EDITION

Engineer startup guide.

A practical first path through Nexus: connect to the right site, read plant data carefully, create traceable engineering evidence and obtain independent review.

NEXUS / AUTOMATION / ROBOTICS / INDUSTRIAL AI
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01 / START SAFELY

What this guide is for

Nexus helps engineers see plant context, prepare engineering records and review decisions. It does not replace the local control system, site operating procedure or qualified safety review.

The boundary to remember

SCADA screens are read-only displays. Evidence and AI workspaces are advisory or review-oriented. Do not use a Nexus form, simulation or recommendation as permission to download PLC logic, force outputs, bypass a safeguard or operate a robot.

Your first-day readiness

Confirm	Why it matters
Named account and role	Your actions and reviews need a traceable person and the correct permission.
Organization and site	A valid record for the wrong factory is still the wrong record.
Site contact and procedure	Physical decisions belong to the local owner and approved process.
Approved project/revision	Engineering evidence is tied to an exact, immutable source state.
Known data source	A display does not prove that a sensor, tag or gateway is commissioned.

If any item is missing, stop and ask the site owner or administrator. Do not borrow credentials or select a convenient default site.

Follow this first workflow

This walk-through uses monitoring and a safe test project. It needs no live control action.

01 Sign in

Open nexus.norddelta.com/access with your named account. Confirm your role and assigned site.

02 Choose context

From My workspace, verify the factory before opening data or creating a record.

03 Inspect one live signal

Check tag identity, unit, quality and freshness. Do not interpret an old value as a current one.

04 Open Historian

Choose a bounded time range. Look for gaps, quality changes and timestamp mismatch.

05 Use help in place

Select Help for this page. Read the steps while your current workspace stays open.

06 Create test evidence

On an approved test project and revision, save a specific record with a traceable source.

07 Ask for review

A different assigned engineer reviews the stored record. Inspect the decision and evidence.

Where to look next

Search all 153 Nexus workspace guides at nexus.norddelta.com/guide. Search troubleshooting, automation, robotics and industrial AI articles at docs.norddelta.com.

03 / OBSERVE

Trust the data before the conclusion

A useful number needs the right equipment, unit, source time and quality state.

Check	Question to ask
Identity	Is this the intended site, asset and tag code?
Unit and scale	Does the engineering unit and expected range match the physical instrument?
Time	When was the value measured, received by the gateway and received by Nexus?
Quality	Is it good, bad, stale, uncertain, disconnected or simulated?
History	Does the trend support the event, and are there missing intervals?

Alarms and incidents

Inspect the alarm code, equipment, priority, state and start time. Compare the underlying trend and local response procedure. Acknowledge only when your role and the site procedure permit it; acknowledgement is not fault clearance.

A good engineering note

Record the time range, signal code, unit, quality, relevant event, what is known, what remains uncertain and who owns the next action. Keep observations separate from a proposed cause.

If data is missing

Confirm site and tag, inspect gateway status and timestamp freshness, then compare a known-good signal. Escalate to the integration owner. A blank or stale value is not zero.

Build an exact revision trail

Project and revision identity is the thread connecting source drawings, I/O, PLC, SCADA, tests and release evidence.

01 Open Projects & reviewers

Select or create the intended project and immutable revision.

02 Identify sources

Record the drawing, requirement or vendor artifact version and its owner.

03 Prepare each record

Use the matching workspace for drawing review, I/O, PLC, SCADA, loop checks or vendor exchange.

04 Validate

Resolve findings against the source, not just by changing a form value.

05 Obtain independent review

Assign the required discipline role to another qualified engineer.

06 Release only with predecessors

A gate reads reviewed records for the exact revision. Vendor import and physical FAT/SAT remain separate.

Immutable means traceable

Corrections to a submitted evidence record require a new record. Do not silently rewrite a reviewed decision or reuse an approval from an older revision.

Design a read-only SCADA screen

The designer assembles a display; it does not create a control path to a PLC.

01 Choose project and screen

Select the reviewed engineering context or create a draft screen.

02 Add components

Use the library for measurements, equipment views, trends, alarms and navigation.

03 Bind signals

Enter only commissioned tag codes. Check unit, freshness and bad-quality appearance.

04 Validate and save

Correct design findings, then save the draft. A click selects a component; a move changes the draft.

05 Review and publish

Follow your engineering review process, provide a publish reason and verify the runtime.

Before publication	Verify
Display meaning	Labels, units, ranges and alarm colors are unambiguous.
Data quality	Missing, stale and bad-quality states are visible.
Navigation	Screen links reach the intended published screens.
Field truth	A publication is not proof that the tag or alarm was commissioned.

Use evidence and AI responsibly

A saved record, a passing policy check and a compelling AI answer are different kinds of evidence.

Capability evidence

Choose the exact project revision. Use How to fill next to each field. Add meaningful list entries, cite the source and meet required values or ranges. The server checks stored records and reviewed predecessors. A different assigned person must make the review decision.

AI and optimization

Ask what data, time range, model version, assumptions and operating domain support a recommendation. Record the human acceptance or rejection reason and later observed outcome. A counterfactual estimate is not a measured benefit or proof of cause.

What a green gate does not mean

It does not certify hardware, vendor-tool compilation, plant safety, external simulation, onsite acceptance or legal compliance. The newer capability pages provide governed evidence; specialist engines must be implemented and validated separately.

No autonomous physical action

Do not promote advice or simulation into PLC writes, safety logic, output forcing or robot motion. Use the separately approved commissioning and local-control processes.

07 / RESOLVE

When something blocks your work

Use the symptom to find the right owner. Keep account tokens, cookies and private keys out of support messages.

Symptom	First checks
Sign-in or access denied	Named account, active site, role and project assignment. Ask an administrator to correct membership.
Review button unavailable	You cannot review your own record. Confirm independent reviewer and required project role.
No live data	Site/tag identity, gateway status, quality and source/received timestamps.
Historian gap	Check source and gateway continuity, time range and quality before inferring zero production.
Draft fails validation	Read the exact field or predecessor finding; check source and revision.
SCADA publish unavailable	Validate, resolve findings and save the latest draft before publishing.

Further help

docs.norddelta.com - searchable Nexus, automation, robotics and AI knowledge. nexus.norddelta.com/guide - in-app instructions for all workspaces.

For site-specific safety, commissioning or vendor tasks, use the approved local procedure and the responsible engineer. External reference reading: NIST OT Security (SP 800-82 Rev. 3), OPC Foundation OPC UA specifications, OSHA robotics resources and NIST AI RMF.